International Masters Of Knowledge

Cambridge Primary Checkpoint Mathematics (0845) Mark Scheme 2020-2006 Paper1 & Paper2

Cambridge Primary Checkpoint

MATHEMATICS	**0845/01**
Paper 1	**April 2020**
MARK SCHEME	

Maximum Mark: 40

Published

This mark scheme is published as an aid to teachers and learners, to indicate the requirements of the examination. However, we have not been able to adjust it to reflect the full range of answers that would have been seen as a part of the normal moderation and marking process, and it does not necessarily contain all the possible alternatives that might have arisen. Cambridge will not enter into discussions about the mark scheme.

This document has **12** pages. Blank pages are indicated.

General guidance on marking

This section gives general guidelines on marking learner responses that are not specifically mentioned in the mark scheme. **Any guidance specifically given in the mark scheme supersedes this guidance.**

Difference in printing

It is suggested that schools check *their* printed copies for differences in printing that may affect the answers to the questions, for example in measurement questions.

Mark scheme annotations and abbreviations

M1	method mark
A1	accuracy mark
B1	independent mark
FT	follow through after error
dep	dependent
oe	or equivalent
cao	correct answer only
isw	ignore subsequent working
soi	seen or implied

Brackets in mark scheme

When brackets appear in the mark scheme this indicates extra information that is not required for the award of the mark(s).

For example:

A question requiring an answer in grams may have an answer line: .... grams

The mark scheme will show the word 'grams' in brackets.

Negative numbers

The table shows acceptable and unacceptable versions of the answer –2.

Accept	Do not accept
–2	2–

Number and place value

The table shows various general rules in terms of acceptable decimal answers.

Accept
Accept omission of leading zero if answer is clearly shown, e.g. **.675**
Accept tailing zeros, unless the question has asked for a specific number of decimal places, e.g. **0.7000**
Accept a comma as a decimal point if that is the convention that you have taught the learners, e.g. **0,638**

Units

For questions involving quantities, e.g. length, mass, money, duration or time, correct units must be given in the answer. Units are provided on the answer line unless finding the units is part of what is being assessed.

The table shows acceptable and unacceptable versions of the answer 1.85 m.

	Accept	Do not accept
If the unit is given on the answer line, e.g. .... m	Correct conversions, provided the unit is stated unambiguously, e.g. ..... 185 cm...... m (this is unambiguous since the unit cm comes straight after the answer, voiding the m which is now not next to the answer)	......185...... m ......1850......m etc.
If the question states the unit that the answer should be given in, e.g. 'Give your answer in metres'.	1.85 1 m 85 cm	185; 1850; Any conversions to other units, e.g. 185 cm

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Money

In addition to the rules for units, the table below gives guidance for answers involving money. The table shows acceptable and unacceptable versions of the answer $0.30.

	Accept	Do not accept
If the amount is in dollars and cents, the answer should be given to two decimal places	$0.30 For an integer number of dollars it is acceptable not to give any decimal places, e.g. $9 or $9.00	$0.3 $09 or $09.00
If units are not given on the answer line	Any unambiguous indication of the correct amount, e.g. 30 cents; 30 c $0.30; $0-30; $0=30; $00:30	30 or 0.30 without a unit $30; 0.30 cents Ambiguous answers, e.g. $30 cents; $0.30 c; $0.30 cents (as you do not know which unit applies because there are units either side of the number)
If $ is shown on the answer line	All unambiguous indications, e.g. $......0.30......; $......0-30......; $......0=30......; $......00:30......	$......30...... Ambiguous answers, e.g. $......30 cents......; $......0.30 cents...... **unless** units on the answer line have been deleted, e.g. ~~$~~......30 cents......
If cents is shown on the answer line	......30......cents	......0.30......cents Ambiguous answers, e.g. ......$30 ......cents; ......$0.30 ......cents **unless** units on the answer line have been deleted, e.g. ......$0.30......~~cents~~

Duration

In addition to the rules for units, the table below gives guidance for answers involving time durations. The table shows acceptable and unacceptable versions of the answer 2 hours and 30 minutes.
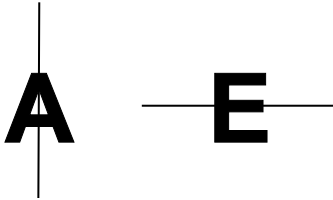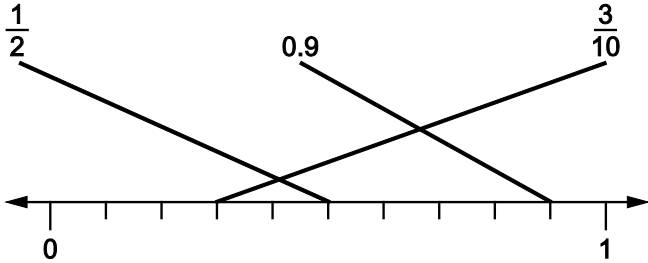
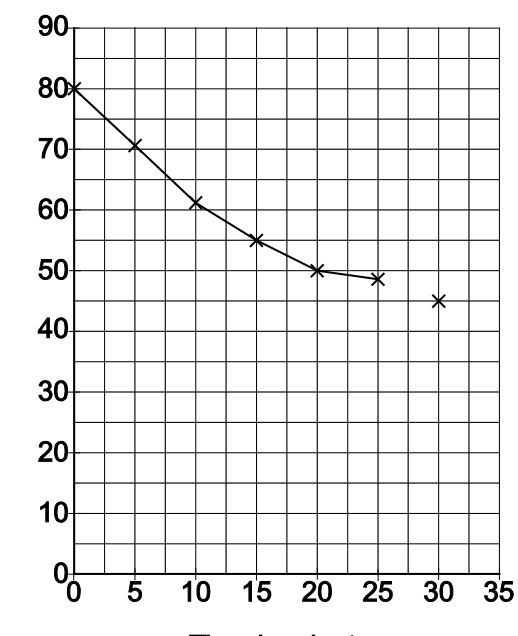| Accept	Do not accept
Any unambiguous indication using any reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs), e.g. 2 hours 30 minutes; 2 h 30 m; 02 h 30 m Any correct conversion with appropriate units, e.g. 2.5 hours; 150 mins **unless** the question specifically asks for time given in hours and minutes	Incorrect or ambiguous formats, e.g. 2.30; 2.3; 2.30 hours; 2.30 min; 2 h 3; 2.3 h (this is because this indicates 0.3 of an hour - i.e. 18 minutes - rather than 30 minutes) 02:30 (as this is a 24-hour clock time, not a time interval) 2.5; 150

Time

The table below gives guidance for answers involving time. It shows acceptable and unacceptable versions of the answer 07:30.
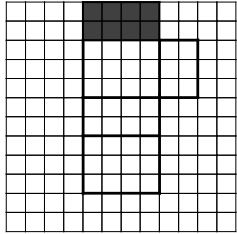
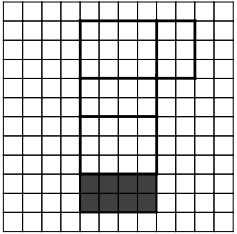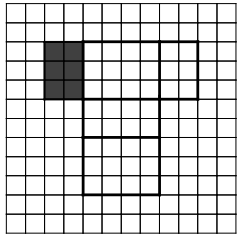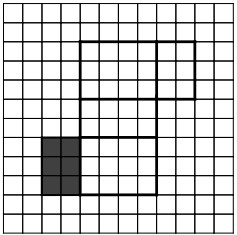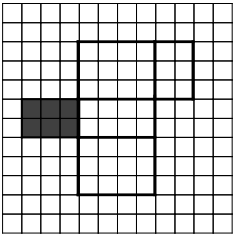|	Accept	Do not accept
If the answer is required in 24-hour format	Any unambiguous indication of correct answer in numbers, words or a combination of the two, e.g. 07:30 with any separator in place of the colon, e.g. 07 30; 07,30; 07-30; 0730	7:30 7:30 am 7 h 30 m 7:3 730 7.30 pm 073 07.3
If the answer is required in 12-hour format	Any unambiguous indication of correct answer in numbers, words or a combination of the two, e.g. 7:30 am with any separator in place of the colon, e.g. 7 30 am; 7.30 am; 7-30 am 7.30 in the morning Half past seven (o'clock) in the morning Accept am or a.m.	Absence of am or pm 1930 am 7 h 30 m 7:3 730 7.30 pm

Question	Answer	Marks	Further Information
1	$250 \div 10 = 25$ ✓ $15 \times 10 = 1500$ x $90 \div 10 = 900$ x $12 \times 100 = 1200$ ✓	**2**	Award 2 for all 4 correct.
	3 correct	**B1**	
2(a)	$\boxed{3}\,\boxed{2} + \boxed{6}\,\boxed{8} = \boxed{1}\,\boxed{0}\,\boxed{0}$	**1**	
2(b)	$\boxed{8}\,\boxed{5}\,\boxed{0} + \boxed{1}\,\boxed{5}\,\boxed{0} = \boxed{1}\,\boxed{0}\,\boxed{0}\,\boxed{0}$	**1**	
3	14:25	**1**	Accept 2:25 pm
4	396 (marbles)	**1**	
5	5139	**1**	
6(a)	5 (cm) and 3 (cm)	**1**	Accept 4.9 to 5.1 for 5 Accept 2.9 to 3.1 for 3
6(b)	16 (cm)	**1**	Accept correct **FT** from part **(a)**

Question	Answer	Marks	Further Information
7	degrees 4	1	Accept ° Accept radians. Both answers must be correct for the mark. Accept recognisable misspellings.
8	14 (km)	1	
9		1	Accept some inaccuracy in lines provided intention is clear. Both answers must be correct for the mark.
10		1	Award 1 mark for all 3 lines correct. Allow mark if the positions on the number line are correctly labelled with $\frac{1}{2}, 0.9, \frac{3}{10}$
11	$(3, 6)$	1	Correct order only.

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Question	Answer	Marks	Further Information
12	Angelique circled and an explanation that 50% = 25 out of 50 **or** 60% = 30 out of 50	1	Both parts of the answer must be correct for the award of the mark.
13(a)	25 (°C)	1	
13(b)	**Graph to show the temperature of a cup of tea** 	1	Last two points do not need to be joined for 1 mark.

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Question	Answer	Marks	Further Information
14	32 × 20 = 640 640 – 32 = 608	**2**	The working and answer must be shown for 2 marks.
	For correct working without the answer.	**M1**	Award only one of these.
	Answer only **or** correct answer using long multiplication.	**B1**	
	Correct method containing arithmetic errors, for example: (32 × 20) – 32 = wrong answer.	**M1**	
15	24 (students)	**1**	
16(a)	24 **and** 309	**1**	Both answers must be correct for 1 mark. Do not allow 10, 10, 4 or 100, 100, 100, 9
16(b)	℮ ∩ ∩ ∩ ∩ ‖	**1**	Accept any arrangement of the correct symbols.
17	0 **and** 8	**1**	Both digits must be correct for the award of the mark.
18	115.18	**1**	
19(a)	51 (c)	**1**	
19(b)	Hassan	**1**	

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Question	Answer	Marks	Further Information
20	(196) 574 (1144) (728) 1026	**1**	All 3 must be circled and no others for 1 mark.
21	8 24 12	**2**	Award 2 marks for all 3 correct.
	2 correct	**B1**	
22	**One from** **And one from** 	**2**	Correct 4 by 2 face. Accept any one of these answers. Correct 2 by 3 face. Accept any one of these answers.
	One face correct	**B1**	

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Question	Answer	Marks	Further Information
23	Any two from: 50 × 60 = 3000 **or** 60 × 50 = 3000 50 × 80 = 4000 **or** 80 × 50 = 4000 50 × 20 = 1000 **or** 20 × 50 = 1000	**2**	Condone correct 3-digit by 2-digit answers, e.g. 120 × 50 = 6000
	one correct calculation	**B1**	
24		**2**	Award 2 marks for all 4 answers correct.
		B1	Award 1 mark for 2 or 3 answers correct. Accept equivalent mixed numbers, e.g. $5\dfrac{75}{100}$

Question 24 table:

Calculation	Decimal	Mixed number
13 ÷ 2	6.5	$6\dfrac{1}{2}$
32 ÷ 5	6.4	$6\dfrac{2}{5}$ **or** $6\dfrac{4}{10}$
23 ÷ 4	5.75	$5\dfrac{3}{4}$

Question	Answer	Marks	Further Information
25		**1**	The diagram must be sufficiently accurate for the intention to be clear.

Question	Answer	Marks	Further Information
26	0.5 (litres)	**1**	Allow half a litre or equivalent. Do not accept answers in ml.
27	<table><tr><td></td><td>**Multiple of 8**</td><td>**Not a multiple of 8**</td></tr><tr><td>**Multiple of 6**</td><td>72</td><td>42</td></tr><tr><td>**Not a multiple of 6**</td><td>32</td><td>52 62</td></tr></table>	**2** **B1**	Award 2 marks for 4 numbers correctly placed. Award 1 mark for 3 numbers correctly placed.
28	102 mm, 10.4 cm, 0.12 m, 125 mm	**1**	Accept: 102 mm, 104 mm, 120 mm, 125 mm or equivalent. Accept answers without units.

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MATHEMATICS	**0845/02**
Paper 2	**April 2020**
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For example:

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Accept omission of leading zero if answer is clearly shown, e.g. **.675**
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The table shows acceptable and unacceptable versions of the answer 1.85 m.

	Accept	Do not accept
If the unit is given on the answer line, e.g. .... m	Correct conversions, provided the unit is stated unambiguously, e.g. ......185 cm...... m (this is unambiguous since the unit cm comes straight after the answer, voiding the m which is now not next to the answer)	......185...... m ......1850......m etc.
If the question states the unit that the answer should be given in, e.g. 'Give your answer in metres'	1.85 1 m 85 cm	185; 1850 Any conversions to other units, e.g. 185 cm

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Money

In addition to the rules for units, the table below gives guidance for answers involving money. The table shows acceptable and unacceptable versions of the answer $0.30

	Accept	**Do not accept**
If the amount is in dollars and cents, the answer should be given to two decimal places	$0.30 For an integer number of dollars it is acceptable not to give any decimal places, e.g. $9 or $9.00	$0.3 $09 or $09.00
If units are not given on the answer line	Any unambiguous indication of the correct amount, e.g. 30 cents; 30 c $0.30; $0-30; $0=30; $00:30	30 or 0.30 without a unit $30; 0.30 cents Ambiguous answers, e.g. $30 cents; $0.30c; $0.30 cents (as you do not know which unit applies because there are units either side of the number)
If $ is shown on the answer line	All unambiguous indications, e.g. $......0.30......; $......0-30......; $......0=30......; $......00:30......	$......30...... Ambiguous answers, e.g. $......30 cents......; $......0.30 cents...... **unless** units on the answer line have been deleted, e.g. $̶......30 cents......
If cents is shown on the answer line	......30......cents	......0.30......cents Ambiguous answers, e.g. ......$30 ......cents; ......$0.30 ......cents **unless** units on the answer line have been deleted, e.g. ......$0.30......c̶e̶n̶t̶s̶

Duration

In addition to the rules for units, the table below gives guidance for answers involving time durations. The table shows acceptable and unacceptable versions of the answer 2 hours and 30 minutes.

Accept	Do not accept
Any unambiguous indication using any reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs), e.g. 2 hours 30 minutes; 2 h 30 m; 02 h 30 m Any correct conversion with appropriate units, e.g. 2.5 hours; 150 mins **unless** the question specifically asks for time given in hours and minutes	Incorrect or ambiguous formats, e.g. 2.30; 2.3; 2.30 hours; 2.30 min; 2 h 3; 2.3 h (this is because this indicates 0.3 of an hour – i.e. 18 minutes – rather than 30 minutes) 02:30 (as this is a 24-hour clock time, not a time interval) 2.5; 150

Time

The table below gives guidance for answers involving time. It shows acceptable and unacceptable versions of the answer 07:30

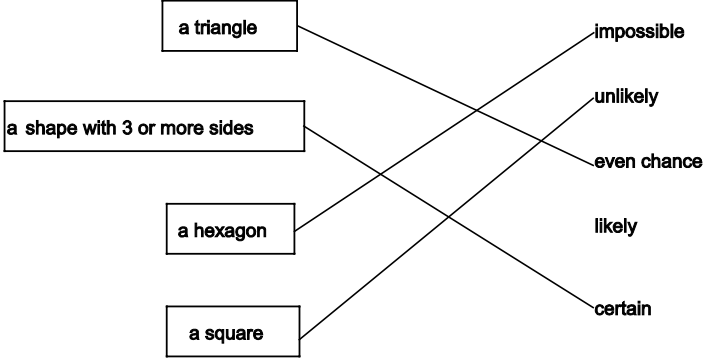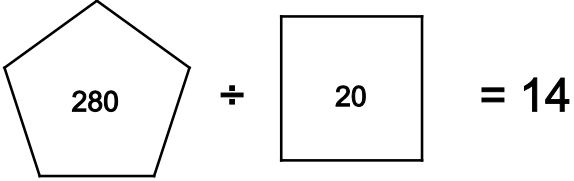|	Accept	Do not accept
If the answer is required in 24-hour format	Any unambiguous indication of correct answer in numbers, words or a combination of the two, e.g. 07:30 with any separator in place of the colon, e.g. 07 30; 07,30; 07-30; 0730	7:30 7:30 am 7 h 30 m 7:3 730 7.30 pm 073 07.3
If the answer is required in 12-hour format	Any unambiguous indication of correct answer in numbers, words or a combination of the two, e.g. 7:30 am with any separator in place of the colon, e.g. 7 30 am; 7.30 am; 7-30 am 7.30 in the morning Half past seven (o'clock) in the morning Accept am or a.m.	Absence of am or pm 1930 am 7 h 30 m 7:3 730 7.30 pm

Question	Answer	Marks	Further Information
1	20 (June)	**1**	June not needed.
2	$\frac{1}{2}$ **and** 0.5	**1**	Both answers must be given for the mark.
3	$\boxed{4}\ \boxed{4}\ \boxed{5}\ +\ \boxed{5}\ \boxed{5}\ \boxed{5}\ = 1000$ **or** $\boxed{4}\ \boxed{5}\ \boxed{5}\ +\ \boxed{5}\ \boxed{4}\ \boxed{5}\ = 1000$ **or** $\boxed{5}\ \boxed{5}\ \boxed{5}\ +\ \boxed{4}\ \boxed{4}\ \boxed{5}\ = 1000$ **or** $\boxed{5}\ \boxed{4}\ \boxed{5}\ +\ \boxed{4}\ \boxed{5}\ \boxed{5}\ = 1000$	**1**	

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Question	Answer	Marks	Further Information
4		1	The diagram must be sufficiently accurate for the intention to be clear.
5		2	All four symbols correctly placed.
	2 or 3 symbols correctly placed	B1	
6	6005 ✓ 6500 ☐ 7055 ✓ 7905 ☐	1	Do not accept any additional ticks. Accept any other clear indication of the correct answer.

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Question	Answer	Marks	Further Information
7	20	**1**	
8	09:30 or 21:30 **and** 01:50 or 13:50	**1**	Both answers must be correct for 1 mark. Accept 9:30 1:50 Ignore any references to am and pm.
9	8250	**1**	Award 1 mark for any number from 8000 to 8500 inclusive.
10	433 112	**1**	
11	3 hundreds 3 hundredths 3 tens ⟨3 tenths⟩ 3 units	**1**	
12	66 (º)	**1**	
13	73 (mm)	**1**	Accept 71-75 (mm) inclusive. Do not accept 7.3 cm.

Question	Answer	Marks	Further Information
14		**2**	All four lines must be correct for 2 marks.
	3 correct	**B1**	
15	Monday	**1**	
16	$170 + 85 + 17 + 17 = 289$	**2**	Accept numbers in any order.
	Correct numbers with wrong total **or** Correct numbers without a total	**B1**	

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Question	Answer	Marks	Further Information
17		**2**	All four correct for 2 marks.
	2 or 3 joined correctly.	**B1**	
18		**2**	Accept correct factors in any order.
	one correct row	**B1**	
19		**1**	

Mathematics

23

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Question	Answer	Marks	Further Information
20(a)		1	Allow arrow at –26 if scale extended correctly.
20(b)	–16	1	Do not accept 16–
21	16 (cm^2)	1	
22	2 × 5 × 11	1	Award 1 mark for all three numbers in any order.

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Question	Answer	Marks	Further Information
23		**2**	Accept slight inaccuracies in the drawing.
	Rotation about the correct point but anticlockwise, i.e.:	**B1**	Award only 1 of these.
	Rotation of 90° but about the wrong point, e.g.:	**B1**	

Mathematics

Question	Answer	Marks	Further Information
24	2 2 3 4 6 **or** 2 2 2 5	**2**	Numbers can be in any order.
	The cards have a mode of 2	**B1**	Award only 1 of these.
	The cards have a range of 4	**B1**	
25	$1\frac{2}{5}$	**1**	Accept equivalent mixed numbers. Do not accept improper fractions.
26	($)11.52	**2**	
	Sight of ($)7.56 or ($)3.96	**B1**	Award only 1 of these.
	A correct method containing any number of arithmetic errors. e.g. 60 ÷ 10 × ($)1.26 + 60 ÷ 15 × ($)0.99	**M1**	

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Question	Answer	Marks	Further Information
27		**2**	

Fraction	Simplest form
$\dfrac{16}{20}$	**$\dfrac{4}{5}$**
$\dfrac{6}{20}$	**$\dfrac{3}{10}$**
$\dfrac{15}{20}$	**$\dfrac{3}{4}$**

Question	Answer	Marks	Further Information
	Two correct	**B1**	
28	② $4\frac{2}{3}$ 5 $6\frac{1}{3}$ ⑩	**1**	
29	1.5 miles 3200 m 6.4 km 4.5 miles	**1**	Accept answers without units. Accept answers converted to same units i.e.: 2.4 km, 3.2 km, 6.4 km, 7.2 km or 1.5 miles, 2 miles, 4 miles, 4.5 miles

Mathematics

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Question	Answer	Marks	Further Information
30	An explanation that shows the answer is **divided by 100**, e.g. • 138 ÷ 100 = (1.38) • divide by 100	1	The answer 1.38 is not required. Do not accept 1.38 without a correct explanation. Do not accept an explanation which involves moving the decimal point.

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MATHEMATICS   **0845/01**

Paper 1   **April 2019**

MARK SCHEME

Maximum Mark: 40

Published
This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Markers were instructed to award marks. It does not indicate the details of the discussions that took place at an Markers' meeting before marking began, which would have considered the acceptability of alternative answers.
Mark schemes should be read in conjunction with the question paper and the End of Series Report.
Cambridge will not enter into discussions about these mark schemes.

Mark scheme annotations and abbreviations

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This document consists of **6** printed pages.

Cambridge Assessment
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[Turn over

Question	Answer	Marks	Further Information
1(a)	8 (people)	1	
1(b)	(drawn faces)	1	Accept inaccuracies in drawing half face provided intention is clear.
2	66	1	
3	3630 640	1	Both required.
4	2409	1	
5		1	Allow alternative unambiguous indications of the correct answers.
6	9 1 3 – **5** 8 **6** = 3 **2** 7	2	All 3 boxes correct.
	Any 2 boxes correct.	B1	
7	4	1	
8	Any two from 125 215 305	1	

Question	Answer	Marks	Further Information
9	$-2 \xrightarrow{+17} 15 \xrightarrow{+17} 32 \xrightarrow{+17} 49 \xrightarrow{+17} 66$	**2**	All 3 correct Do not accept 2–
	Two correct answers **or** –2 correct.	B1	
10	16.8 (km)	**1**	
11	–3 (°C)	**1**	Do not accept 3–
12		**2**	All 5 correct.

	multiples of 5	not multiples of 5
square numbers	25	16
not square numbers	20 30	36 27

	Two or more correct answers.	B1	

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Question	Answer	Marks	Further Information
13(a)		1	Accept any clear indication of correct answer. Shape drawn with vertex at (4, 5) implies correct answer.
13(b)	(6, 3)	1	Do not accept (3, 6) If the point given in **(b)** forms a trapezium with one line of symmetry with *their* **(a)** then award follow through mark. If **(a)** is plotted incorrectly then do not award (6, 3) for **(b)**.
14	1800 (pens)	1	
15	460 3.5(0) 0.35	1	All three answers must be correct for the award of the mark.
16	14 (hours) 52 (minutes)	1	Do **not** accept 892 minutes
17(a)	200010	1	
17(b)	999 900	1	

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Question	Answer	Marks	Further Information
18(a)	4	**1**	
18(b)	3	**1**	
19	Award 2 marks for all 3 joined correctly	**2**	All 3 correctly joined. Small discrepancy allowed if intention is clear.
	Two correct answers.	B1	
20	53 (°)	**1**	
21	6.2 + 3 . 8 = 10 10 − 5 .3 = 4. 7 7. 6 + 2 .4 = 10	**2**	All 3 calculations must be correct for 2 marks.
	Any two calculations correct.	B1	
22(a)	June, July and August.	**1**	Accept the months in any order.
22(b)	April.	**1**	Do not accept A.
23	25 (squares)	**1**	Accept any answer between 24 and 26 squares inclusive.
24	6.4	**1**	

Mathematics

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Question	Answer	Marks	Further Information
25		1	Accept any clear indication of correct answer.
26		1	Accept slight inaccuracies in the drawing provided the intention is clear. [Note the grid in the answer booklet extends further to the right]
27	24 (cherries)	1	
28	296 (km)	2	
	A correct method containing any number of arithmetic errors: $185 \div 5 \times 8$	M1	
29	400 4000 40 000 400 000	1	Accept any clear indication of the correct answer.

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MATHEMATICS   **0845/02**

Paper 2   **April 2019**

MARK SCHEME

Maximum Mark: 40

Published

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Mark schemes should be read in conjunction with the question paper and the End of Series Report.

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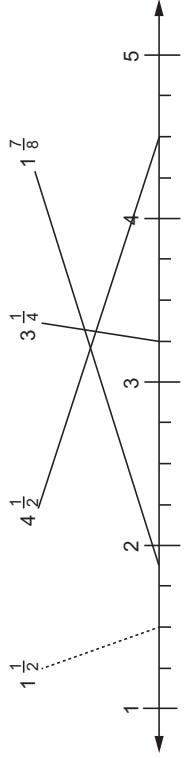
Mark scheme annotations and abbreviations

M1   method mark
A1   accuracy mark
B1   independent mark
FT   follow through after error
dep   dependent
oe   or equivalent
cao   correct answer only
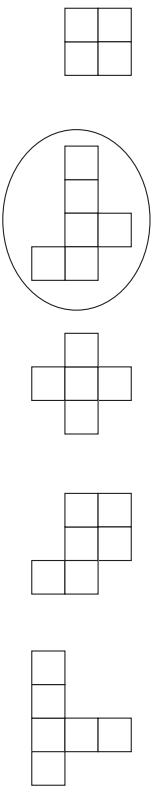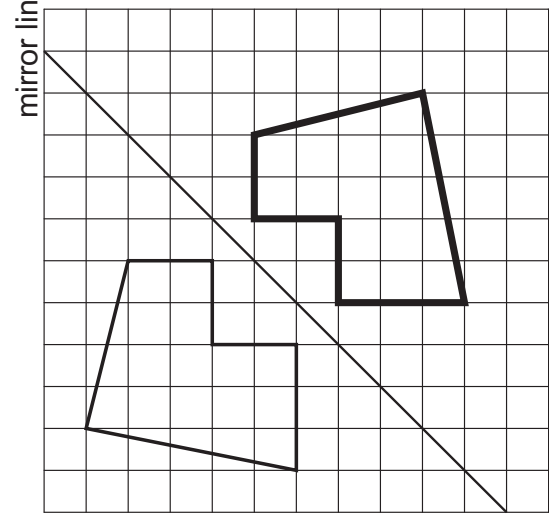isw   ignore subsequent working
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0845/02

Checkpoint Primary – Mark Scheme
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Question	Answer	Marks	Further Information
1	100 ... 500	1	Accept numbers in the range 330–350 exclusive.
2	426 371 469 770 432 child adult adult child child	1	All four answers must be correct to gain the mark. Accept use of A for adult and C for child.
3	17	1	
4		1	Both correct for 1 mark. Accept any clear indication of the line of symmetry. Do not accept additional incorrect lines.
5	2 (pens)	1	
6	127 (coins)	1	
7(a)	12	1	
7(b)	7	1	Accept 19 – *their* answer to **(a)**.

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Checkpoint Primary – Mark Scheme
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Question	Answer	Marks	Further Information
8	Minimum acceptable 6×8 (= 48) **and** 5×2 (= 10)	1	Accept responses that show that the multiplication can be done in any order. This must include the 6×8 and 5×2. Do **not** accept calculations without showing that the order of multiplication can be changed. Do **not** accept an explanation showing that $6 \times 5 \times 8 \times 2 = 480$ and $48 \times 10 = 480$ without explaining why $6 \times 5 \times 8 \times 2$ and 48×10 are equal.
9	Rectangle 8×1, 7×2, 6×3 or 5×4	1	The rectangle must be within the grid.
10	First statement must have 2 and 4 Second statement must have 1 and 6 i.e. $\dfrac{1}{2} = \dfrac{4}{8}$ or $\dfrac{1}{4} = \dfrac{2}{8}$ and $\dfrac{1}{3} = \dfrac{2}{6}$ or $\dfrac{6}{3} = \dfrac{2}{1}$	1	Four correct boxes for one mark.
11	C	1	Do not accept a coordinate as the answer.

Mathematics

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Checkpoint Primary – Mark Scheme
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Question	Answer	Marks	Further Information
12		**1**	
13(a)	17 × 23	**1**	All 3 answers must be correct for 1 mark.

Table (for 13(a)):

Club	Won	Drew	Lost	Points
Durford	40	3	17	83
Warham	37	5	18	79
Carsea	39	5	16	83
Londis	8	2	50	18
Robridge	12	3	45	27
Oxton	33	4	23	70

Question	Answer	Marks	Further Information
13(b)	Warham	**1**	Do not accept an answer of 18
14	0.04 5% 20% $\frac{3}{10}$ $\frac{1}{2}$ (0.04 0.05 0.2 0.3 0.5)	**2**	Accept equivalent forms of the answer.
	0.04 .... $\frac{1}{2}$ **or** $\frac{1}{2}$ $\frac{3}{10}$ 20% 5% 0.04	B1	Accept for 1 mark the smallest and largest in correct position **or** Ordered from largest to smallest with or without changing the wording under the lines.
15	28 (cm^2)	**1**	

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Question	Answer	Marks	Further Information
16	7 (days)	**2**	
	A complete, correct method containing arithmetical errors: $\dfrac{124.60 - 16.60}{9 \times 2} + 1$ **or** An answer of 6 using the correct working $\dfrac{124.60 - 16.60}{9 \times 2}$	M1	
17	(Safia) Aiko, Hassan, Rajiv	**1**	All names must be correctly placed for the award of the mark. Allow (Safia) 5.36 km, 5.3 km, 5.06 km Allow (Safia), A, H, R.
18	<table><tr><td></td><td>True or False</td></tr><tr><td>There are 188 hours in a week.</td><td>false</td></tr><tr><td>There are 900 seconds in 15 minutes.</td><td>true</td></tr><tr><td>There are 744 hours in May.</td><td>true</td></tr><tr><td>There are 578 months in 49 years.</td><td>false</td></tr></table>	**2**	Accept T for true and F for false or any other unambiguous form of the correct answer.
	Three correct answers.	B1	

Question	Answer	Marks	Further Information
19	impossible, unlikely, even chance, likely, certain / is 1 or more, is less than 5, has a factor of 2, is a square number	**2**	
	Two or three correct answers.	B1	
20(a)	40	1	
20(b)	60	1	
21	$\dfrac{1}{3}$	1	The only acceptable answer. Do not accept 8/24
22(a)	Writing	1	
22(b)	68	1	
23	15 (oranges)	1	
24	37 and 11 **or** 1 and 407	1	Answers can be given in either order.
25	13 500 (children)	**2**	Do not accept 45% as answer.
	A correct method containing any number of arithmetic errors: 45% of 30 000 with or without an answer **or** 30 000 – (30% + 25%) of 30 000	M1	Just 45% alone is not enough for 1 mark.

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April 2019

Question	Answer	Marks	Further Information
26	$237.60 **or** 23 760c	**2**	Accept c or cents. Accept other standard monetary units, e.g. €.
	a correct method but with arithmetic errors e.g.: $18 \times 24 \times 55$ **or** $18 \times 24 \times 0.55$	M1	
	237.6 with no units **or** 237.60 with no units **or** 23 760 with no units	B1	
27	93	**1**	
28	59	**1**	

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Question	Answer	Marks	Further Information
29	or	**1**	
30	4.5 (metres)	1	Accept equivalent answers.

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Mathematics

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MATHEMATICS   **0845/01**

Paper 1   **October 2019**

MARK SCHEME

Maximum Mark: 40

Published
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Question	Answer	Marks	Further Information
1	tennis	**1**	Accept any clear indication.
2	m km cm mm	**1**	
3		**2**	4 correct lines.
	2 or 3 correct lines.	**B1**	
4	40 × 6 **or** 60 × 4	**1**	
5	–6 and 39	**1**	Both answers are required for the award of the mark. Do not accept 6–
6	505	**1**	Accept numbers in the range 503 to 507 inclusive.

Question	Answer	Marks	Further Information
7		6	×	4	=	24 | | 24	÷	4	=	6 | | 24	÷	6	=	4		1	Accept the answers in any order. Do **not** accept 4 × 6 = 24 (given)
8	8 (marbles)	1	
9	7251	1	
10	177 (km)	1	
11		1	Arrow pointing to –1 Accept any clear indication. Accept slight deviation so long as the intention is clear.
12(a)	15.6	1	
12(b)	4.8	1	
13	(4) tenths (2) tens (5) hundredths	1	All 3 answers must be correct for 1 mark. Allow reasonable incorrect spelling provided the intention is clear but not e.g. hundreds for hundredths.

Question	Answer	Marks	Further Information
14	20:17 **or** 8:17 pm	1	Do not accept 8:17
15	32	1	
16	306 ÷ 8 = 38.25 or 38 remainder 2 arithmetic must be correct **or** e.g. show 38 × 8 = 304 (not 306)	1	Do **not** accept 82 306 ÷ 8 = 10 288 remainder 2 or 10288.25 Allow any answer where 306 ÷ 8 is quantified correctly.
17		2	All 3 letters must be in the correct place.
	2 correct.	B1	
18		1	
19	9.08	1	

Question	Answer	Marks	Further Information
20		2	Accept multiple answers provided they are correct, e.g. 5 and 9
	2 correct rows.	B1	
21	Any answer in the range $8\frac{1}{2}$ (squares) to $10\frac{1}{4}$ (squares) inclusive.	1	
22	108 (cm^2)	1	
23		2	Award 2 marks for three correct answers. Allow consistent use of comma as decimal point within this question.
	Any two boxes completed correctly.	B1	

For question 20:

Number	Factor between 4 and 10
45	5 or 9
49	7
54	6 or 9

For question 23:

1.24 m	124 cm
3.165 kg	3165 (g)
4.2 l	4200 (ml)
27.3 (cm)	273 mm

Question	Answer	Marks	Further Information
24	226.8 (g)	**1**	
25	55	**1**	Do not allow 60–5 or 5 to 60 without evaluation.
26(a)		**1**	
26(b)	$(-2, -4)$	**1**	The coordinates must be in the correct order. Allow F.T. if point given forms a rectangle with point plotted for part (a).

Question	Answer	Marks	Further Information
27	221 **and** an explanation that shows how the total of 13 can be made, **using only the given** number facts, for example: - $8 + 4 + 1 = 13$ - $4 + 4 + 4 + 1 = 13$ **or** an explanation that **uses only given totals**, for example: - $136 + 68 + 17$ - $68 + 68 + 68 + 17$ Do not accept repeated addition of 17	**2**	Do not allow 13 × 17 = 221 Do not allow any calculation which does not use the given facts.
	Correct method without an answer or with an error in the final calculation. e.g. (1 × 17) + (4 × 17) + (8 × 17) = no answer or error	**M1**	
28(a)	0.75 **or** 0.5 **or** 0.25	**1**	Allow multiple correct answers.
28(b)	− 0.25	**1**	
29	130 (krone)	**1**	

Question	Answer	Marks	Further Information
30	44 (cents)	**2**	Accept $0.44 for 2 marks.
	A correct method containing any number of arithmetic errors. e.g. $(10 - 7.36) \div 6$ and convert to cents	**M1**	Accept, as evidence of an appropriate method, 0.44 (cents).
	A correct method with no arithmetic errors but incorrectly converted.	**M1**	
31	Ticks No **and** shows that $0.3 = \dfrac{3}{10}$ not $\dfrac{1}{3}$ **or** $\dfrac{1}{3} = 0.3333$ not 0.3 **or** shows that $3 \times 0.3 = 0.9$ and $3 \times \dfrac{1}{3} = 1$ **or** $0.3 = 3/10 = 9/30$ and $1/3 = 10/30$	**1**	Accept 30% for $\dfrac{3}{10}$. Accept $33\dfrac{1}{3}$% for $\dfrac{1}{3}$. Acceptable answers must contain comparison of 1/3 and 0.3 not just an evaluation of one.

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MATHEMATICS   **0845/02**

Paper 2   **October 2019**

MARK SCHEME

Maximum Mark: 40

Question	Answer	Marks	Further Information
1(a)	8 (students)	**1**	
1(b)		**1**	Allow if the height of the bar representing the cheetah is in the space between 10 and 8 Allow variable widths of bar so long as within confines of cheetah. The bar does not need to be shaded.
2	C, D, B, A	**1**	Allow 130°, 110°, 90°, 75° allow ± 2° Must be in the given order.
3	$\frac{1}{3}$ or $\frac{4}{12}$ or $\frac{2}{6}$	**1**	Accept any equivalent fraction.

Question	Answer	Marks	Further Information
4	$\dfrac{2}{8} < \boxed{\dfrac{4}{8}}$ $\boxed{\dfrac{7}{8}} > \dfrac{5}{8}$ $\boxed{\dfrac{3}{8}} = \dfrac{3}{8}$ $\dfrac{6}{8} > \boxed{\dfrac{1}{8}}$	**2**	All 4 statements must be correct for 2 marks.
	2 or 3 correct answers.	**B1**	
5	8	**1**	
6	23 (packets)	**1**	
7	4601 (4548) 4635 4590 4610	**1**	Accept any clear indication.
8	Squares **or** square units	**1**	Accept mm^2 **or** cm^2. Accept any tessellating shape.

Question	Answer	Marks	Further Information
9	42 + 58 **or** 52 + 48	**1**	
10		**2**	All 4 boxes correct.
	2 or 3 boxes correct.	**M1**	
11(a)		**1**	Award 1 mark for an equilateral triangle in any position. Dots must be used as the vertices of the triangle.
11(b)	Here are 3 different answers. For example: 	**1**	Award 1 mark for an isosceles triangle in any position. Dots must be used as the vertices of the triangle.

Question	Answer	Marks	Further Information
12	**Frequency table of scores** | Scores	Tally	Frequency
---	---	---
3–6	|	1
7–10	|||	3
11–14	|||| |	6
15–18	||||	5		**2**	Award 2 marks if both columns are correct. Tallies must be in groups of 5
	Either the tally or the frequency column is correct. **or** 4 or more boxes are correct.	**B1**	Tallies must be in groups of 5
13		**1**	The diagram must be sufficiently accurate for the intention to be clear.
14	$3\dfrac{1}{4}$ **and** $5\dfrac{1}{2}$	**2**	Do **not** accept decimal answers. Accept equivalent mixed numbers.
	one correct answer.	**B1**	

Question	Answer	Marks	Further Information
15	17 + 5 > 20 11 + 9 = 20 2 + 3 < 20	1	Numbers in each row can be given in any order.
16	4.1 7.8 2.4	1	All 3 answers need to be correct for 1 mark. Accept answers such as 4.10 etc.
17	84, 12, 54	2	All 3 correct
	2 correct answers.	B1	
18(a)	6 out of 10 is the same as 60%.	1	
18(b)	5 out of 20 is the same as 25 %.	1	
19	350	1	
20	28 May	1	

Question	Answer	Marks	Further Information
21	55 cents or $0.55	**1**	Do not accept 55 or 0.55
22	59 × 30 = 1770	**1**	
23	An explanation which recognises that all numbers ending in 3 are not prime, for example: • 33 divides by 3 so it is not prime • 63 is divisible by 3	**1**	Accept a counter example, for example: 93 Do not accept a statement without exemplification, e.g. Not all numbers that end in 3 are prime.
24(a)	($) 3338	**1**	
24(b)	($) 745	**1**	
25	<table><tr><td></td><td>**Multiples of 4**</td><td>**Not multiples of 4**</td></tr><tr><td>**Multiples of 5**</td><td>40</td><td></td></tr><tr><td>**Not multiples of 5**</td><td>24 36 64</td><td>54</td></tr></table>	**2**	Award 2 marks for 4 numbers correctly placed.
	3 numbers correctly placed	**B1**	

Question	Answer	Marks	Further Information
26	5.5	**1**	Do not allow −5.5
27	30 (°C)	**1**	Do not allow −30 (°C)
28		**1**	The diagram must be sufficiently accurate for the intention to be clear.
29(a)	124 (°)	**1**	Accept 123 – 125 (°) inclusive
29(b)	7.9 (cm)	**1**	Accept 7.8 – 8.0 (cm) inclusive Accept 78 mm – 80 mm inclusive

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MATHEMATICS   **0845/01**

Paper 1   **April 2018**

MARK SCHEME

Maximum Mark: 40

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FT   follow through after error
dep   dependent
oe   or equivalent
cao   correct answer only
isw   ignore subsequent working
soi   seen or implied

Question	Answer	Marks	Further Information
1	67	**1**	

Question	Answer	Marks	Further Information
2	18 (squares)	**1**	Do not accept 18^2

Question	Answer	Marks	Further Information
3	<table><tr><td>×</td><td>**4**</td><td>3</td><td>**9**</td></tr><tr><td>2</td><td>8</td><td>6</td><td>18</td></tr><tr><td>5</td><td>20</td><td>**15**</td><td>45</td></tr><tr><td>6</td><td>**24**</td><td>18</td><td>**54**</td></tr></table>	**2**	Award 2 marks for all 5 boxes correct.
	3 or 4 boxes correct	B1	

Question	Answer	Marks	Further Information
4	Any 2 triangles shaded	**1**	

Question	Answer	Marks	Further Information
5		**2**	All 4 numbers must be in the correct section of the diagram for 2 marks.
	3 numbers correctly placed.	B1	

Question	Answer	Marks	Further Information
6	270 (° clockwise)	**1**	

Question	Answer	Marks	Further Information
7	Yes, together with calculations showing that $\frac{7}{10} > \frac{3}{5}$ for example: • $\frac{3}{5} = \frac{6}{10}$ so $\frac{7}{10}$ is larger • $\frac{3}{5} = 0.6$ and $\frac{7}{10} = 0.7$ so $\frac{7}{10}$ is larger	**1**	Do not accept 'Yes' without a mathematically correct explanation.

Question	Answer	Marks	Further Information
8	3721	**1**	

Question	Answer	Marks	Further Information
9	E	**1**	Allow 65900

Question	Answer	Marks	Further Information
10	$\dfrac{1}{\boxed{2}}=50\%$ $\dfrac{4}{\boxed{100}}=4\%$ $\dfrac{3}{10}=\boxed{30}\,\%$	**2**	All three must be correct for the award of 2 marks.
	2 correct answers.	B1	

Question	Answer	Marks	Further Information
11(a)	22 30	**1**	Accept 22:30 Do not accept 22.30
11(b)	08 45	**1**	Accept 08:45 Do not accept 8.45

Question	Answer	Marks	Further Information
12		**2**	Award 2 marks for all four answers correct with no errors.
	2 or 3 answers correct with no more than 2 errors or All 4 correct but with additional pairs ringed.	B1	

Question	Answer	Marks	Further Information
13	$4\dfrac{4}{5}$ (m)	**1**	Accept 4 plus any fraction equivalent to $\dfrac{4}{5}$. Do not accept 4.8

Question	Answer	Marks	Further Information
14(a)	8 (blocks)	**1**	
14(b)	6 (blocks)	**1**	

Question	Answer	Marks	Further Information
15(a)	16 **and** 53	**1**	Both numbers must be correct.
15(b)		**1**	

Question	Answer	Marks	Further Information
16		**1**	All three must be correct for 1 mark.

Question	Answer	Marks	Further Information
17		**1**	

Question	Answer	Marks	Further Information
18	7.04 7.1 7.4 7.44	**1**	All 4 boxes must be correct for 1 mark.

Question	Answer	Marks	Further Information
19	0.9 or $\dfrac{9}{10}$	**1**	

Question	Answer	Marks	Further Information
20	68.4 1.9 684	**2**	All 3 correct.
	2 correct.	B1	

Question	Answer	Marks	Further Information
21	80 **and** 100 **and** 120	**2**	All 3 correct with no incorrect answers.
	2 correct answers with no incorrect answers **or** 3 correct answers and no more than 1 incorrect answer	B1	

Question	Answer	Marks	Further Information
22	60 (°)	**1**	

Question	Answer	Marks	Further Information
23	17 (°C)	**1**	Do not accept −17 (°C)

Question	Answer	Marks	Further Information
24(a)	($) 31.25	**1**	
24(b)	($) 258.65	**1**	

Question	Answer	Marks	Further Information
25(a)		1	'Peg' marked at the point (1, −1) Accept any identifiable mark.
25(b)	(−1, −1) (0, −1) (2, −1)	1	All 3 co-ordinates must be correct for 1 mark. Accept the answers in any order.

Question	Answer	Marks	Further Information
26	3500	1	

Question	Answer	Marks	Further Information
27	$17\frac{1}{2}$ (miles) or 17.5 (miles)	1	Accept answers in the range 17 miles to 18 miles inclusive.

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Question	Answer	Marks	Further Information
28(a)	Any three numbers of which at least two are 6	**1**	
28(b)	Any three numbers where largest – smallest is 7	**1**	

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MATHEMATICS	**0845/02**
Paper 2	**April 2018**
MARK SCHEME	
Maximum Mark: 40	

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Mark scheme annotations and abbreviations

M1	method mark
A1	accuracy mark
B1	independent mark
FT	follow through after error
dep	dependent
oe	or equivalent
cao	correct answer only
isw	ignore subsequent working
soi	seen or implied

Question	Answer	Marks	Further Information
1	4076	**1**	

Question	Answer	Marks	Further Information
2	130 (g)	**1**	May be on diagram

Question	Answer	Marks	Further Information
3	<table><tr><td>60</td><td>**50**</td><td>10</td></tr><tr><td>**40**</td><td></td><td>80</td></tr><tr><td>20</td><td>**70**</td><td>30</td></tr></table>	**2**	Award 2 marks for all 5 entries correct.
	Any 2 or 3 sides adding to 120	B1	

Question	Answer	Marks	Further Information
4	even + even ⤳ even even − odd odd + even ⤳ odd odd − odd	**1**	All three lines must be correct with no additional lines for the award of the mark.

Question	Answer	Marks	Further Information
5	$\dfrac{2}{4}$	1	

Question	Answer	Marks	Further Information
6(a)	45 (students)	1	
6(b)	An explanation that shows more students ride bicycles in week 2, for example: • 15 students ride bicycles in week 1 and 20 students ride bicycles in week 2	1	Must be evaluated. Do not accept just a repeat of the given information, e.g. repeating the value of each symbol.

Question	Answer	Marks	Further Information
7		1	All 3 numbers must be correct for the award of the mark.

Question	Answer	Marks	Further Information
8		1	

Question	Answer	Marks	Further Information
9		2	Award 2 marks for all 3 points correct. Accept points not joined. Ignore interim points if not connected.
	2 points correct.	B1	

Question	Answer	Marks	Further Information
10	8 (16) 20 (36) 45 54 (64) 70	**1**	All 3 must be correct with no wrong answers.

Question	Answer	Marks	Further Information
11	<table><tr><td></td><td>**To the nearest whole number**</td></tr><tr><td>24.6 × 8</td><td>197</td></tr><tr><td>348 ÷ 7.5</td><td>46</td></tr><tr><td>5091.5 ÷ 17</td><td>300</td></tr><tr><td>471.9 × 9.1</td><td>4294</td></tr></table>	**2**	All four must be correct for 2 marks. Do not accept e.g. 46.00 300.00 4294.00
	2 or 3 correct answers.	B1	

Question	Answer	Marks	Further Information
12	8 (fish)	**1**	

Question	Answer	Marks	Further Information
13	9 (tents)	**1**	Do not accept 8 remainder 2 or $8\frac{2}{9}$ etc.

Question	Answer	Marks	Further Information
14	750 (cm)	**1**	

Question	Answer	Marks	Further Information
15(a)	3340 (cm)	**1**	
15(b)	0.334 (m)	**1**	

Question	Answer	Marks	Further Information
16(a)	Anastasia spins a number smaller than 8 Impossible ☐ Unlikely ☐ Even chance ☐ Likely ✔ Certain ☐ Anastasia spins a number that is a multiple of 12 Impossible ✔ Unlikely ☐ Even chance ☐ Likely ☐ Certain ☐	**1**	Both correct for 1 mark.
16(b)	An event connected to the spinner with probability of 0.5 e.g. ▪ getting an even number ▪ getting a number less than 6 ▪ getting a number greater than 5 ▪ getting a factor of 12	**1**	Do not award the mark for two exclusive examples given, e.g. "landing on an odd number or an even number."

Question	Answer	Marks	Further Information
17	$\frac{2}{10}$ — 50% (dashed), 20% $\frac{1}{2}$ — (dashed) 25% $\frac{68}{100}$ — 75% $\frac{3}{4}$ — 68%	1	All 3 lines must be correct for 1 mark.

Question	Answer	Marks	Further Information
18	$1 \times 42 = 42$ $2 \times 21 = 42$ $3 \times 14 = 42$ $6 \times 7 = 42$	**2**	All 4 calculations correct with no errors. Accept calculations in any order or commutative.
	2 or 3 calculations correct with no more than 2 incorrect calculations. **or** All 4 calculations correct with no more than 2 incorrect calculations.	B1	

Question	Answer	Marks	Further Information
19	20 90	**1**	Both answers required.

Question	Answer	Marks	Further Information
20(a)	A rectangle with a perimeter of 12 cm: 1×5 **or** 2×4 **or** 3×3	**1**	Vertices of rectangle must be placed on a dot.
20(b)	A rectangle with an area of 12 cm²: 1×12 **or** 2×6 **or** 3×4	**1**	Vertices of rectangle must be placed on a dot.

Question	Answer	Marks	Further Information
21	<table><tr><td></td><td>polygon</td><td>not a polygon</td></tr><tr><td>has right angles</td><td>A F</td><td>C</td></tr><tr><td>does not have right angles</td><td>B D</td><td>E</td></tr></table>	**2**	All 5 letters correct. Do not award mark for a letter in two sections.
	3 or 4 letters correct.	B1	

Question	Answer	Marks	Further Information
22	($) 4.25	**2**	
	Correct method containing any number of arithmetic errors: $(1.25 \times 25) - 27$	M1	

Question	Answer	Marks	Further Information
23	**Onion Soup** **Serves 6** **60** g butter **3** large onions **1275** ml stock **4½** teaspoons flour	**2**	All four must be correct. Accept 4.5 teaspoons flour.
	2 or 3 correct answers.	B1	
	sight of $\times$ 1.5 or equivalent.	M1	

Question	Answer	Marks	Further Information
24	($) 5.25	**2**	
	Correct method containing any number of arithmetic errors, for example: $2 \times 1.50 + 5 \times (3 \times 1.50 \div 10)$	M1	
	sight of 0.45 or 45	B1	Units must be correct if shown.

Question	Answer	Marks	Further Information
25	> and <	1	In the correct order.

Question	Answer	Marks	Further Information
26		1	

Question	Answer	Marks	Further Information
27	$(6 \times 1.5 + 4.9) \times 4 = 55.6$	1	

Question	Answer	Marks	Further Information
28	5 (minutes) 56 (seconds)	1	The answer must be given in minutes and seconds. Do not accept 5.93 recurring (minutes) or 356 (seconds).

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MATHEMATICS   **0845/01**

Paper 1   **October 2018**

MARK SCHEME

Maximum Mark: 40

Published
This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Markers were instructed to award marks. It does not indicate the details of the discussions that took place at an Markers' meeting before marking began, which would have considered the acceptability of alternative answers.
Mark schemes should be read in conjunction with the question paper and the End of Series Report.
Cambridge will not enter into discussions about these mark schemes.

Mark scheme annotations and abbreviations

M1	method mark
A1	accuracy mark
B1	independent mark
FT	follow through after error
dep	dependent
oe	or equivalent
cao	correct answer only
isw	ignore subsequent working
soi	seen or implied

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Question	Answer	Marks	Further Information
1	E2	1	Do not accept 2E
2	166 (magazines)	1	
3	C B D A	1	Do not accept reverse order. Allow 40°, 90°, 100°, 130° ±1
4	60 (people)	1	
5	All 5 numbers correct:	2	

×	3	5	9
4	12	20	36
6	18	30	54
2	6	10	18

Question	Answer	Marks	Further Information
	3 or 4 correct numbers	B1	
6(a)	35	1	
6(b)	'No' must be ticked, together with an explanation that the twelfth number in the sequence is even, not odd, for example: • 12 × 5 is 60 (which is even or is not odd) • the sequence goes odd, even, odd, even so the twelfth number will be even • odd × even = even • all the even multiples of 5 are even • 60 (is even) • the twelfth number is 60	1	Do not accept 'No' without a valid explanation. Accept alternative wording. Do not accept just 'The twelfth number is even'. Explanation must be mathematically correct and calculations must relate to 12 × 5 and or 60

Question	Answer	Marks	Further Information
7	20 (cm)	1	
8	5 (days)	1	Accept a list, or clear indication of: Monday, Tuesday, Wednesday, Saturday, Sunday
9	5.3 + 4.7 **or** 5.7 + 4.3	1	Numbers can be in either order.
10	(x =) 56 (°)	1	
11	$3\frac{2}{5}$	1	Do not accept 3.4
12	63 (mm)	1	Allow any answer between 61 mm and 65 mm. Do not accept answer in centimetres.
13	6750 700 68 (6651) 7000	1	Accept alternative, unambiguous indications of the correct answer.
14(a)	isosceles **and** Explanation that 2 sides are equal **or** Explanation that 2 angles are equal	1	Do not award the mark for isosceles with no explanation. Allow 'Because it has (only) one line of symmetry.'
14(b)	scalene **and** Explanation that all sides are different lengths **or** Explanation that all angles are different sizes	1	Do not award the mark for scalene with no explanation. Allow 'has no line of symmetry'

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Primary Checkpoint Mathematics - Mark Scheme

Question	Answer	Marks	Further Information
15	225 (grams)	**1**	
16(a)	They are all square numbers.	**1**	Accept the mark for recognition that they are all a number multiplied by itself, e.g. 4 × 4, 5 × 5, 6 × 6, 7 × 7, 8 × 8 Allow *a* × *a* = *b* or similar
16(b)	81	**1**	
17	A C D B	**1**	Accept the correct times listed in order: 6:55 7:30 9:10 9:45
18	<table><tr><th>IN</th><th>OUT</th></tr><tr><td>1.5</td><td>150</td></tr><tr><td>**9.37**</td><td>937</td></tr><tr><td>6.2</td><td>**620**</td></tr><tr><td>**0.49**</td><td>49</td></tr><tr><td>0.07</td><td>**7**</td></tr></table>	**2**	All 4 numbers correct.
	2 or 3 numbers correct	B1	
19	($)198 oe	**1**	

Primary Checkpoint Mathematics - Mark Scheme

0845/01

Question	Answer	Marks	Further Information
20(a)	19 (cents)	1	
20(b)	Apple ticked, together with calculations showing that an orange costs less than an apple, for example:	1	Do not award mark for apple ticked without correct justification.
	• 88 ÷ 5 = 17r3 which is less than 19 • 88 ÷ 5 = 17.6 which is less than 19 • 19 × 5 = 95 cents which is more than 88 cents **or** An explanation that the difference in price between 5 oranges and 4 apples is 12 cents which is not enough to buy an apple. If **part (a)** incorrect with an answer less than 17.6 and calculation for orange in **part (b)** is correct e.g. 88 ÷ 5 = 17.6 then the conclusion that the orange costs more to be marked correct as follow through.		
21	17 **and** 29 or 71 **and** 29	1	Accept answers in any order
22	0.9	1	
23	25(%)	1	

Primary Checkpoint Mathematics - Mark Scheme

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Question	Answer	Marks	Further Information
24	(calculation grids showing 1,4 / 3,8 + and 3,8 / 1,4 + equal to 5,2 / 2 or equivalent arrangements)	**1**	
25(a)	Even (chance)	**1**	Accept fifty-fifty, 50%, $\dfrac{3}{6}$, $\dfrac{1}{2}$ or equivalent fractions.
25(b)	Impossible or No chance	**1**	Accept 0 or zero.
26	9	**1**	

Mathematics

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Primary Checkpoint Mathematics - Mark Scheme

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Question	Answer	Marks	Further Information
27		**2**	All entries must be correct for the award of 2 marks. Accept any unambiguous indication of the correct answer.
	(true) true false true true		
	Any three correct entries.	B1	

Mathematics

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Question	Answer	Marks	Further Information
28	 		Number who walk to school	Number who **do not** walk to school	Total
Number of Boys	9	6	15
Number of Girls	3	12	15
Total	12	18	30		**2**	All 6 boxes correct.
	3, 4 or 5 boxes correct. **or** Either first or second column correct **and** all columns totaling correctly **and** correct follow through total for rows E.g. 		Number who walk to school	Number who do not walk to school	Total
Number of Boys	9	12	21
Number of Girls	3	6	9
Total	12	18	30		M1	
29	10.8 (metres)	1	
30	$\dfrac{5}{100}$ **or** 0.05 **or** five hundredths	1	Do not accept hundredths or $\dfrac{1}{100}$ Do not accept 5 hundreds. Allow $\dfrac{1}{20}$
31	68	1	

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MATHEMATICS	**0845/02**
Paper 2	**October 2018**
MARK SCHEME	
Maximum Mark: 40	

Mark scheme annotations and abbreviations

M1 method mark
A1 accuracy mark
B1 independent mark
FT follow through after error
dep dependent
oe or equivalent
cao correct answer only
isw ignore subsequent working
soi seen or implied

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Primary Checkpoint Mathematics - Mark Scheme

0845/02

Question	Answer	Marks	Further Information
1	$\dfrac{2}{10}$ $\dfrac{5}{10}$ $\dfrac{6}{10}$ $\dfrac{9}{10}$	1	Allow conversion to decimals.
2	$70 \times 9 = 630$ **or** $90 \times 7 = 630$	1	
3	4086 **and** 3686	1	Both numbers must be correct for 1 mark.
4	(Up 3 Right 2) Up 1 Right 4 Down 4 Left 6	1	All four lines must be correct for 1 mark. Allow 1 Up, 4 Right etc.
5(a)		1	Line should pass through the mark for 175 ml. Allow small discrepancy as long as it touches 175 or the part of line drawn extended touches 175.
5(b)	0.225 (*l*)	1	
6	35 cm 305 cm (350 cm) 3500 cm	1	Accept any unambiguous indication of the correct answer.

Mathematics

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Primary Checkpoint Mathematics - Mark Scheme

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Question	Answer	Marks	Further Information
7	Indicates graph C together with an explanation that the scale on the vertical axis is as long as possible, making it easier to see the difference between the children's heights.	**1**	Do not accept C without an explanation. Do not accept any facts that are true of all the graphs e.g. Yuri is the biggest. Do not accept just C is more accurate/reliable. Accept explanations relating to: • C has bigger differences. • C is more clearly seen. • It has a larger scale. • Do not accept graph C is more accurate, but do accept anything implying graph C can be used/read more accurately.
8	Division question — Rounding decision 16 apples are put into bags of 5 How many full bags are there? → round down A minibus holds 10 people. 56 people are going on a trip. How many minibuses are needed? → round up A pumpkin costs $3 How many can you buy with $10? → round down 35 candles are put into 4 boxes How many boxes are needed to hold them all? → round up **B1** 3 answers correct.	**2**	All 4 answers correct.

Primary Checkpoint Mathematics - Mark Scheme

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Question	Answer	Marks	Further Information
9		**1**	The diagram must be sufficiently accurate for the intention to be clear (vertices within 1 mm).
10	10 (beads)	**2**	
	6 **and** 8 seen **or** 24 – (*their* 6) and (*their* 8) **or** 14 **or** $\frac{5}{12}$ oe or $\frac{7}{12}$ oe	B1	
	A correct method containing any number of arithmetic errors: 24 – ($\frac{1}{3}$ of 24) – ($\frac{1}{4}$ of 24)	M1	

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Primary Checkpoint Mathematics - Mark Scheme

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Question	Answer	Marks	Further Information
11(a)	$19 \div 3 = 6 \boxed{1} \dfrac{}{3}$	1	
11(b)	$\boxed{15} \div 4 = 3\dfrac{3}{4}$	1	
12	87×21 **or** 21×87	1	
13		1	The diagram must be sufficiently accurate for the intention to be clear. Allow diagram showing an intermediate position, e.g.

Question	Answer	Marks	Further Information
14(a)	40 (cm)	**1**	
14(b)	Graph to show the growth of a maple tree *Height (cm) vs Time (years) line graph*	**1**	Point plotted at 67 cm for 5th year. Allow point between 66 cm and 68 cm exclusive.
15	4.5	**1**	Accept $4\frac{1}{2}$

Question	Answer	Marks	Further Information
16	$26 + 54 \;\boxed{=}\; 100 - 20$ $7 \times 9 \;\boxed{<}\; 8 \times 8$ $56 \div 7 \;\boxed{>}\; 76 - 69$	**1**	All answers must be correct for the award of the mark.
17	An example such as: *18 is a multiple of 3 but it is even*	**1**	Accept sight of any even multiple of 3 Allow explanation that includes the repeat addition of 3
18	A correct number in each cell: <table><tr><td></td><td>Less than 50</td><td>More than 50 Less than 100</td></tr><tr><td>Divisible by 4</td><td>A multiple of 4 less than 50 e.g. 16</td><td>A multiple of 4 between 50 and 100 e.g. 64</td></tr><tr><td>Divisible by 25</td><td>25</td><td>75</td></tr></table> Any 2 or 3 correct answers	**2** **B1**	Allow more than 1 correct answer in the top two cells.

Question	Answer	Marks	Further Information
19	2 or 3 correct answers.	**2** B1	4 correct answers.
20	3 or more numbers correct.	**2** B1	All 6 numbers correct. Missing numbers are: XV XVII XX XXVI XXVIII XXIX

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Primary Checkpoint Mathematics - Mark Scheme

Question	Answer	Marks	Further Information
21	$\dfrac{4}{\boxed{5}} = \dfrac{20}{25}$ $\qquad \dfrac{\boxed{1}}{5} = \dfrac{24}{120}$	1	Both parts must be correct for the award of the mark.
22	(number line from 0 to 10 000 with arrow)	1	Accept an arrow between 7.3 cm and 7.5 cm from 0
23(a)	34	1	
23(b)	35	1	
24(a)	22 (°C)	1	Do not accept –22 (°C)
24(b)	–20 (°C)	1	Do not accept 20– (°C)
25(a)	27 (cm²)	1	
25(b)	42 (cm)	1	
26	0.4 and $\dfrac{2}{5}$	1	Accept any unambiguous indication of the correct answer.

Mathematics

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Question	Answer	Marks	Further Information
27	the distance from Buenos Aires to Rosario — m² the area of a tennis court — km² the length of a pencil — centimetres (centimetres, cm², metres, m², kilometres, km²)	1	All three lines must be correct for 1 mark.
28(a)	9 (hours)	1	
28(b)	13:35 **or** 1:35 pm	1	Do not accept just 1:35

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MATHEMATICS   **0845/01**

Paper 1   **April 2017**

MARK SCHEME

Maximum Mark: 40

IMPORTANT NOTICE

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Published
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Mark scheme annotations and abbreviations

M1   method mark
A1   accuracy mark
B1   independent mark
FT   follow through after error
dep   dependent
oe   or equivalent
cao   correct answer only
isw   ignore subsequent working
soi   seen or implied

Question	Answer	Marks	Further Information
1	50	**1**	

Question	Answer	Marks	Further Information
2	9 (km)	**1**	

Question	Answer	Marks	Further Information
3 (a)		**1**	Anywhere in the multiples of three ring, but not in the overlap area.
3 (b)	24	**1**	

Mathematics

Question	Answer	Marks	Further Information
4 (a)	heptagon	1	Accept 'irregular heptagon'. Accept 'septagon'.
4 (b)	Any trapezium with 1 line of symmetry made by connecting dots on the grid, e.g.: 	1	Accept shape drawn in any orientation.

Mathematics   **105**   iMok Educare : +919967462256

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Question	Answer	Marks	Further Information
5	7 (marbles)	**2**	
	A correct method containing any number of arithmetic errors: For example: $(24 \div 2) - 5$ or $(24 - 10) \div 2$ or $24 - (24 \div 2) - 5$	M1	

Question	Answer	Marks	Further Information
6	$1\dfrac{1}{2}$ or $1\dfrac{2}{4}$ or $1\dfrac{4}{8}$ (pizzas)	**1**	Accept any equivalent mixed number.

Question	Answer	Marks	Further Information
7 (a)	**Frequency** 2 4 5 3	**1**	Ignore tally column. Mark is awarded for correct frequencies. Do not accept tallies on their own.
7 (b)	Red	**1**	

Question	Answer	Marks	Further Information
8 (a)	($) 40	**1**	
8 (b)	July, August, September **and** October	**1**	All four answers must be given for the mark, with no extras. Accept abbreviations, e.g. J, A, S, O

Question	Answer	Marks	Further Information
9	4250 (m*l*)	**1**	

Question	Answer	Marks	Further Information
10		**2**	One mark for each.
	One correct line.	B1	

Question	Answer	Marks	Further Information
11	16, 36 **and** 49	**1**	All three numbers must be correct for the award of the mark.

Mathematics

Question	Answer	Marks	Further Information
12	Any one of:	**2**	Numbers can be in any order.
	Three different multiples of 6 **or** Three multiples of 6 that add to 60 but with one repeat e.g. 6 6 48	B1	

Question	Answer	Marks	Further Information
13	1.48 or 0.36	**1**	Do not allow 1 unit, 4 tenths and 8 hundredths or (0 units), 3 tenths and 6 hundredths.

Question	Answer	Marks	Further Information
14	The card has a letter T on it — Impossible The card has a letter R on it — Unlikely The card has a capital letter on it — Certain (Even chance, Likely)	1	Both correct for 1 mark.

Question	Answer	Marks	Further Information
15	4	1	Accept 13 remainder 4. Do **not** accept fractions or decimals.

Question	Answer	Marks	Further Information
16	mirror line	1	All four vertices must be correct. Drawing must be accurate enough to show clear intention.

Question	Answer	Marks	Further Information
17 (a)	Explanation that shows that 784 must be multiplied by 10, for example 112 × 70 = 112 × 7 × 10 or 784 × 10 The answer, 7840, is not essential.	1	Do not allow 7840 without a correct explanation. Do not allow long multiplication 112 × 70 with no reference to 112 × 7 = 784. Do not accept 'add zero' or 'move decimal'.
17 (b)	Explanation that shows that 784 must be divided by 10, for example: 11.2 × 7 = 112 ÷ 10 × 7 or 784 ÷ 10 or 112 × 7 × 0.1 The answer, 78.4, is not essential.	1	Do not allow 78.4 without a correct explanation. Do not allow long multiplication 11.2 × 7 with no reference to 112 × 7 = 784. Do not accept 'move decimal'.

Question	Answer	Marks	Further Information
18		**2**	All 3 lines correct with no extra lines.
	Two answers correct and no more than 1 extra incorrect line.	B1	

Question	Answer	Marks	Further Information
19 (a)	6.3 oe	**1**	
19 (b)	0.76 oe	**1**	

Question	Answer	Marks	Further Information
20 (a)	$(-4, -3)$	**1**	Correct format only.
20 (b)		**1**	K is plotted at $(-4, -3)$. Accept follow through from part (a).

Question	Answer	Marks	Further Information
21	3.12 3.14 3.2 3.4 3.42	**1**	Do not accept reverse order.

Question	Answer	Marks	Further Information
22	140	**1**	

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Question	Answer	Marks	Further Information
23	true true true false	1	All three must be correct for the award of the mark. Accept any clear indication.

Question	Answer	Marks	Further Information
24	1 3 11 33	1	All factors must be given for award of one mark. Allow in any order.

Question	Answer	Marks	Further Information
25	Each line should total 1.2	1	All three numbers must be correct for the award of the mark.

Mathematics   **113**   iMok Educare : +919967462256

Question	Answer	Marks	Further Information
26	2.69 **and** 3.58	**1**	Both must be correct for the mark.

Question	Answer	Marks	Further Information
27	62(°)	**1**	Accept answers between 61° and 63° inclusive.

Question	Answer	Marks	Further Information
28	116 (cm^2)	**2**	
	A correct method containing any number of arithmetic errors, e.g.: (12 × 3) + (20 × 4) or (7 × 12) + (4 × 8) or (20 × 7) – (8 × 3)	M1	

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MATHEMATICS	**0845/02**
Paper 2	**April 2017**
MARK SCHEME	
Maximum Mark: 40	

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Mark scheme annotations and abbreviations

M1   method mark
A1   accuracy mark
B1   independent mark
FT   follow through after error
dep   dependent
oe   or equivalent
cao   correct answer only
isw   ignore subsequent working
soi   seen or implied

Checkpoint Primary – Mark Scheme
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Question	Answer	Marks	Further Information
1	200 and 850	**2**	Accept 840 to 860 inclusive for 850.
	One correct answer.	B1	

Question	Answer	Marks	Further Information
2	B C A D	**1**	Accept 20°, 85°, 90°, 130° (all ± 5°).

Question	Answer	Marks	Further Information
3	384	**1**	

Question	Answer	Marks	Further Information
4		**1**	Award 1 mark for both correct.

Fraction	Decimal
$\frac{1}{2}$	0.5
$\frac{3}{4}$	0.75
$\frac{63}{100}$	0.63

Allow equivalent fractions for $\frac{3}{4}$ e.g. $\frac{75}{100}$.

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Mathematics   **118**   iMok Educare : +919967462256

Question	Answer	Marks	Further Information
5 (a)	25 (ants)	1	
5 (b)	An explanation that shows there are more spiders in the Class 4B pictogram, for example: • The chart shows that Class 4A collected 3 × 5 = 15 spiders but Class 4B collected 2 × 10 = 20 spiders.	1	Do not award the mark for explanations that only restate the value of each symbol, for example • in 4A each symbol = 5 • in 4B each symbol = 10 Values of 15 and 20 must be correct.

Question	Answer	Marks	Further Information
6 (a)	2 (cm)	1	
6 (b)	36 (cm)	1	

Question	Answer	Marks	Further Information
7	8 (people)	1	

Question	Answer	Marks	Further Information
8	6710 6700 7000	2	All 3 answers must be correct for 2 marks.
	Any two correct answers.	B1	

Question	Answer	Marks	Further Information
9	$\boxed{1\ \ 5} \times \boxed{9\ \ 3} = 1395$	**1**	Accept 15 and 93 in either order.

Question	Answer	Marks	Further Information
10	4 35 pm 14 05 04 17 ⟨16 25⟩	**1**	Accept any clear indication of correct answer.

Question	Answer	Marks	Further Information
11	35 550 **and** 35 005	**1**	Both answers must be correct for 1 mark.

Question	Answer	Marks	Further Information
12	An explanation that shows that the answer to 342 ÷ 5 is not a whole number, for example: • 342 divided by 5 has a remainder (answer must be evaluated, i.e. gives the remainder of 2) • the answer is not a whole number (answer must be evaluated, i.e. gives answer of 68.4) **or** An explanation that includes 0 and 5, for example: • All the multiples of 5 end in 0 or 5 • 342 does not end in 0 or 5 **or** An explanation stating that any number ending in 2 cannot be divisible by 5, for example: • Any number with a units digit of 2 is not divisible by 5	**1**	

Question	Answer	Marks	Further Information
13	10 (minutes)	**1**	

Question	Answer	Marks	Further Information
14	Rectangle 9 × 2 or 6 × 3	**1**	Do not accept rectangles that do not use the dots.

Question	Answer	Marks	Further Information
15	14 (24) 34 42 54	**1**	

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Question	Answer	Marks	Further Information
16		1	Drawing should be accurate enough to demonstrate an understanding of the required translation.

Question	Answer	Marks	Further Information
17	11, 13, 17 **and** 19	**2**	
	Three correct answers with at most one additional incorrect answer. **or** All four correct with one extra.	B1	

Question	Answer	Marks	Further Information
18	impossible (unlikely) even chance likely certain	1	

Question	Answer	Marks	Further Information
19	($)78.90	**2**	
	A correct method containing any number of arithmetic errors, e.g. 22 × 2.75 + 4 × 4.60	M1	

Question	Answer	Marks	Further Information
20 (a)	2 squares shaded.	**1**	
20 (b)	$\frac{7}{10}$ or $\frac{70}{100}$	**1**	Accept equivalent fractions or decimals, for example: 0.7 or $\frac{14}{20}$

Question	Answer	Marks	Further Information
21		**2**	All three answers correct.
	Any one or two correct answers.	B1	

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Question	Answer	Marks	Further Information
22	false true false	1	All answers must be correct for the award of 1 mark.

Question	Answer	Marks	Further Information
23	5 or –6	1	

Question	Answer	Marks	Further Information
24 (a)	3 (cm)	1	
24 (b)	52 (mm)	1	Allow 51 mm or 53 mm.

Question	Answer	Marks	Further Information
25	4 (faces) 8 (vertices) 8 (edges)	2	
	Two correct answers.	B1	

Question	Answer	Marks	Further Information
26	21:35	1	Accept 9:35 pm. Do not accept 9:35.

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Mathematics

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Question	Answer	Marks	Further Information
27	$\dfrac{1}{\boxed{5}}$ $\dfrac{\boxed{2}}{5}$	1	Both answers must be correct for the award of the mark.

Question	Answer	Marks	Further Information
28	18 (cats)	1	

Question	Answer	Marks	Further Information
29	($) 6.20	2	
	A correct method containing any number of arithmetic errors e.g. • $\dfrac{2170 \div 3.5}{100}$ • $21.70 \div 35$	M1	Only award one of the M1 or B1 marks.
	Sight of 620 with no unit (as final answer in their working). **or** 620 cents seen with incorrect place value conversion to $.	B1	

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MATHEMATICS **0845/01**

Paper 1 **October 2017**

MARK SCHEME

Maximum Mark: 40

Published

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October 2017

0845/01

Primary Checkpoint Mathematics – Mark Scheme
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Mark scheme annotations and abbreviations

M1 method mark
A1 accuracy mark
B1 independent mark
FT follow through after error
dep dependent
oe or equivalent
cao correct answer only
isw ignore subsequent working
soi seen or implied

Mathematics

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0845/01

Primary Checkpoint Mathematics – Mark Scheme
Published

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Question	Answer	Marks	Further information
1	8	1	

Question	Answer	Marks	Further Information
2	650	1	

Question	Answer	Marks	Further Information
3	2390 (people)	1	

Question	Answer	Marks	Further Information
4	16 (cm)	1	

Question	Answer	Marks	Further Information
5	34 (36) 43 56 (64) 67	1	Both must be circled for the mark to be awarded.

Question	Answer	Marks	Further Information
6(a)	9 (children)	1	
6(b)	28 (children)	1	

Mathematics

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Question	Answer	Marks	Further Information
7	763, 736, 673, 637, 376, 367	2	All six answers in order with no additional answers.
	Five correct answers in the correct order.	B1	Do not accept reverse order.

Question	Answer	Marks	Further Information
8	7:15	1	Accept equivalent answers.

Question	Answer	Marks	Further Information
9(a)	1024	1	
9(b)	19 140	1	

Question	Answer	Marks	Further Information
10	5 (crates)	1	Do not accept 4 remainder 6

Question	Answer	Marks	Further Information
11	2.25 (metres)	1	Correct answer only.

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Question	Answer	Marks	Further Information
12	$\dfrac{3}{8}$	1	Accept equivalent fractions.

Question	Answer	Marks	Further Information
13	5.3 (m)	1	

Question	Answer	Marks	Further Information
14	−50 −28 −27 (−23) −22	1	

Question	Answer	Marks	Further Information
15	1.15 (kg)	1	Accept answers between 1.13 and 1.17 (kg) inclusive.

Question	Answer	Marks	Further Information
16(a)	21:07	1	Do not allow 21:7
16(b)	00:22	1	Do not allow 24:22

Question	Answer	Marks	Further Information
17(a)	3	1	
17(b)	14 (cars)	1	

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Question	Answer	Marks	Further Information
18	36 **or** 81	1	

Question	Answer	Marks	Further Information
19	$\frac{4}{8}$ $\frac{6}{8}$ $\left(\frac{3}{4}\right)$ $\frac{9}{12}$ $\frac{2}{8}$	1	

Question	Answer	Marks	Further Information
20	1 (minute(s)) 38 (second(s))	1	

Question	Answer	Marks	Further Information
21	7 (red balls)	1	

Question	Answer	Marks	Further Information
22		1	All three answers must be correct for the award of the mark.

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Question	Answer	Marks	Further Information
23		1	Accept slight inaccuracies in the drawing if the intention is clear.

Question	Answer	Marks	Further Information
24	6	1	

Question	Answer	Marks	Further Information
25	6.25 × 10 = 62.5 — True 625 ÷ 10 = 6.25 — **False** 0.625 × 100 = 625 — **False** 6250 ÷ 100 = 62.5 — **True**	1	All three answers must be correct for the award of the mark.

Question	Answer	Marks	Further Information
26	1.7, 1.4, 1.1	1	All three answers must be correct for the award of the mark.

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Question	Answer	Marks	Further Information
27	20 × 1800 (60 × 60) 400 × 90 (30 × 120)	**1**	Both must be circled for the award of the mark.

Question	Answer	Marks	Further Information
28	2.06 2.35 2.4 2.6 2.95	**1**	

Question	Answer	Marks	Further Information
29		**2**	
	a correct method containing any number of arithmetic errors, e.g.: 85 + [⅓(130 − 85)] and 130 − [⅓(130 − 85)]	M1	Award only one of M1 or B1
	100 or 115 in incorrect box.	B1	

Question	Answer	Marks	Further Information
30	E D A B C	**2**	All five answers correct.
	three or four answers correct.	B1	

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Question	Answer	Marks	Further Information
31	$63 \div 9 = 7$ $\quad$ $0.7 \times \boxed{90} = 63$ $\boxed{63} \div 70 = 0.9$ $\quad$ $0.9 \times 7 = \boxed{6.3}$	**2**	Three correct answers.
	Two correct answers.	B1	

Question	Answer	Marks	Further Information
32	$\dfrac{9}{16}$ $\quad$ $\dfrac{2}{3}$ $\quad$ $\dfrac{3}{8}$ $\quad$ $\boxed{\dfrac{5}{8}}$	**1**	

Mathematics

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MATHEMATICS   **0845/02**

Paper 2   **October 2017**

MARK SCHEME

Maximum Mark: 40

Published
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0845/02

Primary Checkpoint Mathematics – Mark Scheme
Published

Mark scheme annotations and abbreviations

M1	method mark
A1	accuracy mark
B1	independent mark
FT	follow through after error
dep	dependent
oe	or equivalent
cao	correct answer only
isw	ignore subsequent working
soi	seen or implied

Question	Answer	Marks	Further Information
1	0 ——————— 350 ——→ 1000	1	

Question	Answer	Marks	Further Information
2(a)	$\frac{6}{18}$ **or** $\frac{1}{3}$	1	Accept fractions written in words. Accept equivalent fractions.
2(b)	$\frac{9}{18}$ **or** $\frac{3}{6}$ **or** $\frac{1}{2}$	1	Accept fractions written in words. Accept equivalent fractions.

Question	Answer	Marks	Further Information
3	Card 2 – any number greater than 4990 and smaller than 5010 **and** Card 4 – any number greater than 5010 and smaller than 5060	1	Both boxes must be correct for the award of the mark. Allow decimal numbers in the correct range.

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Question	Answer	Marks	Further Information
4	B < D < C < A	2	Allow 50° 75° 90° 110° (± 2)
	Angles in the correct order but with consistent misinterpretation of < i.e. A < C < D < B	B1	

Question	Answer	Marks	Further Information
5(a)	Pineapples: 7 Melons: 14	1	Both must be correct for the award of the mark.
5(b)	4.5 (cm)	1	

Question	Answer	Marks	Further Information
6	(triangle) 1st, (plus) 2nd, (parallelogram) 3rd, (circle) 4th, (triangle) 5th, (plus) 6th	1	

Question	Answer	Marks	Further Information
7	5 3 2 × 8	1	

Question	Answer	Marks	Further Information
8	28.6	2	
	Sight of 34.1 **and** 5.5	B1	

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Question	Answer	Marks	Further Information
9	($) 0.39	1	

Question	Answer	Marks	Further Information
10(a)	600 (m*l*)	1	
10(b)	825 (g)	1	

Question	Answer	Marks	Further Information
11	7.8 7 8.5 8 7.49 8.37 9	1	All four must be correct for the award of the mark.

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Question	Answer	Marks	Further Information
12	48 (years) **or** 104 (years)	**2**	
	A correct method involving multiples of 8 plus 1 or multiples of 7 minus 1, for example: ... 24 32 40 (48) 56 ... 25 33 41 (49) 57 or ... 21 28 35 42 (49) ... 20 27 34 41 (48)	M1	Do not accept a list of multiples without evidence of +1, –1 as appropriate.

Question	Answer	Marks	Further Information
13	impossible unlikely even chance likely certain Anastasia takes a red sweet Anastasia takes a yellow sweet Anastasia takes a green sweet	**1**	All three must be correct for the award of the mark.

Question	Answer	Marks	Further Information
14	120 (°)	**1**	

Question	Answer	Marks	Further Information
15	16 (students)	**1**	

Question	Answer	Marks	Further Information
16	(diagram: 3.7 | 3, 1.4 | 5, 2.2 | 8)	**2**	All three numbers must be correct. Allow (diagram: 3.X6 | 1 3, 1.4 | 5, 2.2 | 8) Do not allow (diagram: 3.7 | 13, 1.5 | 5, 2.2 | 8)
	Two correct numbers.	B1	

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Question	Answer	Marks	Further Information
17	Explanation that 15 has factors other than 1 and 15, for example: • 3 (or 5) is a factor of 15 • 3 × 5 = 15 • 3 (and / or 5) divides into 15	1	Do not award the mark for explanations that only define prime numbers with no reference to 15. Do not award the mark for explanations which only state that 15 can be divided by other numbers. Answers must state factors other than 1 and 15, e.g.: "15 can be divided by 3 and 5" oe.

Question	Answer	Marks	Further Information
18(a)	4.8 (cm)	1	Accept 4.7 to 4.9 inclusive (cm)
18(b)	73 (mm)	1	Accept 72 to 74 inclusive (mm)

Question	Answer	Marks	Further Information
19	41.78 **or** 81.74	1	

Question	Answer	Marks	Further Information
20	($)16.74	1	

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Question	Answer	Marks	Further Information
21	$209.5 + 8.29 + 94.03$ $\boxed{=}$ 51.97×6 $998.3 \div 6.7$ $\boxed{>}$ $1001 - (549.4 + 302.67)$ $70.75 \times (3.93 + 1.37)$ $\boxed{<}$ $900 \div 2.4$	**2**	All three signs must be correct for two marks.
	Two signs correct.	B1	

Question	Answer	Marks	Further Information
22		**2**	All four answers must be correct for two marks.
	$12\frac{1}{2}$ — 12.5 $21\frac{1}{4}$ — 21.25 $42\frac{4}{5}$ — 42.8		Accept equivalent fractions.
	Three correct answers.	B1	

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Question	Answer	Marks	Further Information
23(a)		**1**	
23(b)	(0, 1) **or** (1, −1)	**1**	Accept follow through from part (**a**). Note that (**b**) must be a whole number co-ordinate which lies on the line drawn in part (**a**).

Question	Answer	Marks	Further Information
24	Any three numbers which total 10	**2**	Numbers may be repeated.
	Evidence that the total of the five numbers is 20, for example: • sight of 5 × 4 or 4 × 5 • sight of 5 numbers totalling 20 within a trial and improvement method	B1	

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Question	Answer	Marks	Further Information
25	50 (cm^2)	**2**	
	A complete method: (8 × 4) + (3 × *their* 6) **or** (3 × 10) + (*their* 5 × 4) **or** (8 × 10) – (*their* 5 × *their* 6) Arithmetic evidence of *their* 6 as 10 – 4 = wrong answer **or** Arithmetic evidence of *their* 5 as 8 – 3 = wrong answer must be shown.	M1	Method can contain any number of arithmetic errors, but must be a correct method. Do not allow (3 × 10) + (8 × 4) = 62 (cm^2)

Question	Answer	Marks	Further Information
26	135	**1**	

Question	Answer	Marks	Further Information
27	Triangular pyramid **or** Tetrahedron	**1**	Do not accept triangular prism or pyramid.

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MATHEMATICS   **0845/01**

Paper 1   **April 2016**

MARK SCHEME

Maximum Mark: 40

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Question number	1		
Part	**Mark**	**Answer**	**Further Information**
	1	(105) (150) 501 551 (555)	
Total	**1**		

Question number	2		
Part	**Mark**	**Answer**	**Further Information**
	1	⟨35 + 65⟩ ⟨47 + 53⟩ [21 + 89] ⟨88 + 12⟩ [36 + 54]	
Total	**1**		

Question number	3		
Part	**Mark**	**Answer**	**Further Information**
	1	12 (shells)	
Total	**1**		

Question number	4		
Part	**Mark**	**Answer**	**Further Information**
	1		
Total	**1**		

Question number	5	
Part	**Mark**	**Answer**	**Further Information**
	1	$\dfrac{8}{8}$ $\quad$ $\dfrac{5}{8}$ $\quad$ $\dfrac{3}{8}$ $\quad$ $\dfrac{2}{8}$	
Total	**1**		

Question number	6	
Part	**Mark**	**Answer**	**Further Information**
	1	Cube	
Total	**1**		

Question number	7	
Part	**Mark**	**Answer**	**Further Information**
	1	7 (teams)	
Total	**1**		

Question number	8	
Part	**Mark**	**Answer**	**Further Information**
	1	a c b	
Total	**1**		

Question number	9		
Part	**Mark**	**Answer**	**Further Information**
	2	 or or Right angle does not need to be identified.	For one mark, accept any pentagon with dots at vertices.
Total	**2**		

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Question number	10		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	(bar chart with Melon bar at 7 highlighted)	
(b)	1	55	
Total	**2**		

Question number	11		
Part	**Mark**	**Answer**	**Further Information**
	1	2800	
Total	**1**		

Question number	12		
Part	**Mark**	**Answer**	**Further Information**
	1	9th (birthday)	
Total	**1**		

Question number	13		
Part	**Mark**	**Answer**	**Further Information**
	1	0.6 (0.7) 0.5 0.2 (0.3)	
Total	**1**		

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Question number	14		
Part	**Mark**	**Answer**	**Further Information**
	1	Accept any of the following answers: 72.3 > 65.4 72.3 > 64.5 72.4 > 65.3 72.4 > 63.5 72.5 > 64.3 72.5 > 63.4	
Total	**1**		

Question number	15		
Part	**Mark**	**Answer**	**Further Information**
	1	(7,6)	Do not accept (6, 7) Do not accept $x = 7$ or $y = 6$
Total	**1**		

Question number	16		
Part	**Mark**	**Answer**	**Further Information**
	1	33 400	
Total	**1**		

Question number	17		
Part	**Mark**	**Answer**	**Further Information**
	1		Shape does not need to be shaded.
Total	**1**		

Question number	18		
Part	**Mark**	**Answer**	**Further Information**
	1	8.07 (8.8) (9.45) 8.2 9.54 (8.54)	
Total	**1**		

Question number	19		
Part	**Mark**	**Answer**	**Further Information**
	1	6300	Accept any number between 6200 and 6400 inclusive.
Total	**1**		

Question number	**20**		
Part	**Mark**	**Answer**	**Further Information**
	1	40 (%)	
Total	**1**		

Question number	**21**		
Part	**Mark**	**Answer**	**Further Information**
	1	966 (bricks)	
Total	**1**		

Question number	**22**		
Part	**Mark**	**Answer**	**Further Information**
	1	71.2	
Total	**1**		

Question number	**23**		
Part	**Mark**	**Answer**	**Further Information**
	1	Arrow points to 650 grams	
Total	**1**		

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Question number	24		
Part	**Mark**	**Answer**	**Further Information**
	1	900	Do not accept $900.
Total	**1**		

Question number	25		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	2736	
(b)	1		
Total	**2**		

Question number	26		
Part	**Mark**	**Answer**	**Further Information**
	1	2.74	
Total	**1**		

Question number	27		
Part	**Mark**	**Answer**	**Further Information**
	1		
Total	**1**		

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Question number	28		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	9 (grams)	Do not accept 6–15.
(b)	1	11 (grams)	
Total	**2**		

Question number	29		
Part	**Mark**	**Answer**	**Further Information**
	1	$\frac{2}{4}$ = 0.5 **or** $\frac{2}{5}$ = 0.4 **or** $\frac{4}{5}$ = 0.8 **or** $\frac{8}{2}$ = 4.0 **or** $\frac{8}{4}$ = 2.0 **or** $\frac{4}{8}$ = 0.5	Do not accept a blank box to represent zero.
Total	**1**		

Question number	30		
Part	**Mark**	**Answer**	**Further Information**
	1	14 (cm^2)	
Total	**1**		

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Question number	31		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	($)3.47	
(b)	1	($)6.53	Allow follow through mark for 10 – *their* **(a)** evaluated correctly.
Total	**2**		

Question number	32		
Part	**Mark**	**Answer**	**Further Information**
	1	8 (°C) **and** – 4 (°C)	Either order Do not accept 4 – (°C)
Total	**1**		

Question number	33		
Part	**Mark**	**Answer**	**Further Information**
	2		Award 1 mark for a triangle rotated 90° clockwise about a different point or Award 1 mark for a triangle rotated 90° anti-clockwise about O.
Total	**2**		

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Question number	34		
Part	**Mark**	**Answer**	**Further Information**
	1	Explanations that show that 390 must be halved, for example: 13 × 15 = half of 26 × 15 The answer is not essential.	Do not accept 195 without a correct explanation. Do not accept an answer which carries out the long multiplication 13 × 15 with no reference to 26 × 15 = 390
Total	**1**		

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MATHEMATICS **0845/02**

Paper 2 **April 2016**

MARK SCHEME

Maximum Mark: 40

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Question number	1		
Part	**Mark**	**Answer**	**Further Information**
	1	☐ ☐ ☐ ✓	
Total	**1**		

Question number	2		
Part	**Mark**	**Answer**	**Further Information**
	1	60 cm (43 cm) 54 cm (26 cm) 87 cm	
Total	**1**		

Question number	3		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	324	
(b)	1	24	
Total	**2**		

Question number	4		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	35 (cups)	
(b)	1	40 (cups)	
Total	**2**		

Question number	5		
Part	**Mark**	**Answer**	**Further Information**
	1	12 (m)	
Total	**1**		

Question number	6		
Part	**Mark**	**Answer**	**Further Information**
	2	**or**	Award 1 mark for any two sides correct. **or** For a complete diagram with 3 sides adding to 120 that uses the same multiple of 10 more than once.
Total	**2**		

Question number	7		
Part	**Mark**	**Answer**	**Further Information**
	1	$\frac{3}{4}$ (cake)	Accept 0.75 or any equivalent.
Total	**1**		

0845/02/A/M/16

[Turn over

Question number	8		
Part	**Mark**	**Answer**	**Further Information**
	1	7.4 + 2.6 **or** 7.6 + 2.4	Numbers can be in either order.
Total	**1**		

Question number	9		
Part	**Mark**	**Answer**	**Further Information**
	1		Accept an arrow in the range 450 ml to 475 ml, closer to 450 ml.
Total	**1**		

Question number	10		
Part	**Mark**	**Answer**	**Further Information**
	1	(table below)	
Total	**1**		

	True	Not true
odd + odd = odd		✔
even − odd = even		✔
odd × even = even	✔	

0845/02/A/M/16

Question number	11		
Part	**Mark**	**Answer**	**Further Information**
	1	Sharifa has 68 (balloons) Kimi has 17 (balloons) Neera has 17 (balloons)	
Total	**1**		

Question number	12		
Part	**Mark**	**Answer**	**Further Information**
	2	*A* with the following answers: Area of *A* = 28 cm^2 Area of *B* = 24 cm^2 Area of *C* = 27 cm^2 Ignore omission of units, but if units are used they must be correct.	Award 1 mark for three correct answers without a choice. or Award 1 mark for three correct methods containing arithmetic errors that leads to a correct follow through choice. or Award 1 mark for correct *A*, *B* and *C* with correct choice of *A* but incorrect units given. Do not award a mark for a correct choice only.
Total	**2**		

Question number	13		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	90 (ml)	
(b)	1	3 (scoops)	
Total	**2**		

Question number	14		
Part	**Mark**	**Answer**	**Further Information**
	1	5 10 18 26 (36) 42	
Total	**1**		

Question number	15		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	(a =) 135 (^{o})	
(b)	1	(b =) 57 (^{o})	
Total	**2**		

Question number	16		
Part	**Mark**	**Answer**	**Further Information**
	1	 < < >	
Total	**1**		

Question number	17		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	31.6	
(b)	1	$31\frac{3}{5}$	Accept $31\frac{6}{10}$ Accept correct follow through from *their* **(a)**
Total	**2**		

Question number	18		
Part	**Mark**	**Answer**	**Further Information**
	1	9	
Total	**1**		

Question number	19		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	16.4 × 3.3	
(b)	1	140.643 ÷ 2.7	
Total	**2**		

Question number	20		
Part	**Mark**	**Answer**	**Further Information**
	2	Labels on vertical axis, reading down: 10 000 8000 6000 4000 2000 Labels on the horizontal axis, reading across: 0 – 19 20 – 39 40 – 59 60 – 79 80+	Award 1 mark for each correctly labelled axis. The labels on the horizontal axis must give the whole group label e.g. 0 – 19
Total	**2**		

Question number	21		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	1 hour 33 minutes or 93 minutes	Do not accept 1.33 or any answer with no units.
(b)	1	10 38 bus	Accept 3rd bus or 10 : 38 or 1105 at Pentwell.
Total	**2**		

Question number	22		
Part	**Mark**	**Answer**	**Further Information**
	1	3 and 13	
Total	**1**		

Question number	23		
Part	**Mark**	**Answer**	**Further Information**
	1	0.63 × 10 = 6.3 63 ÷ 100 = 0.63	
Total	**1**		

Question number	24		
Part	**Mark**	**Answer**	**Further Information**
	1	70 and 80	Numbers can be written in any order
Total	**1**		

Question number	25		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	A **and** C	Either order
(b)	1	B	
Total	**2**		

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Question number	26		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	1 **and** 3 **and** 6 **and** 10 **or** triangle numbers	
(b)	1	21	
Total	**2**		

Question number	27		
Part	**Mark**	**Answer**	**Further Information**
	2	110 **and** 130 **and** 150 with no extras	Accept for 1 mark any **two** of the three correct answers with no more than one extra.
Total	**2**		

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MATHEMATICS   **0845/01**

Paper 1   **October 2016**

MARK SCHEME

Maximum Mark: 40

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Question number	1		
Part	**Mark**	**Answer**	**Further Information**
	1		
Total	**1**		

Question number	2		
Part	**Mark**	**Answer**	**Further Information**
	1	7190 (km)	
Total	**1**		

Question number	3		
Part	**Mark**	**Answer**	**Further Information**
	1	72 (oranges)	
Total	**1**		

Question number	4		
Part	**Mark**	**Answer**	**Further Information**
	2		All 3 diagrams must be correct for 2 marks. Award 1 mark for any two correct diagrams.
Total	**2**		

Question number	5	CPM	
Part	**Mark**	**Answer**	**Further Information**
	1	504 514 5004 (5040)	
Total	**1**		

Question number	6		
Part	**Mark**	**Answer**	**Further Information**
	1	500	
Total	**1**		

Question number	7		
Part	**Mark**	**Answer**	**Further Information**
	1	2	
Total	**1**		

Question number	8		
Part	**Mark**	**Answer**	**Further Information**
(a)	1		
(b)	1	20, 40, 60	
Total	**2**		

Question number	9		
Part	**Mark**	**Answer**	**Further Information**
	1		
Total	**1**		

Question number	10		
Part	**Mark**	**Answer**	**Further Information**
	1	(4, 1)	Coordinates must be written in the correct order.
Total	**1**		

Question number	11		
Part	**Mark**	**Answer**	**Further Information**
	2		Award 1 mark for 2 or 3 correct lines drawn.
Total	**2**		

Question number	12		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	87 (passengers)	
(b)	1	18 (weeks)	
(c)	1	3.56	
Total	**3**		

Question number	13		
Part	**Mark**	**Answer**	**Further Information**
	1	60 000 + 3000 + 900 + 40 + 2	
Total	**1**		

Question number	14		
Part	**Mark**	**Answer**	**Further Information**
	2		Award 1 mark for any 2 or 3 correct. Accept equivalent fractions or mixed numbers.
Total	**2**		

Question number	15		
Part	**Mark**	**Answer**	**Further Information**
	1	360 – 18	An answer is not required. The mark is awarded for evidence of subtracting 18 Do not award the mark for 342 only. Do not award the mark for long multiplication of 19 × 18
Total	**1**		

Question number	16		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	 Points plotted; 15 (°C) at 6:00 pm **and** 10 (°C) 8:00 pm	
(b)	1	19 (°C)	Accept answers between 18.5 (°C) and 19.5 (°C) inclusive.
Total	**2**		

Mathematics **175**

Question number	17		
Part	**Mark**	**Answer**	**Further Information**
	1	4 × 4 square placed **anywhere** on the grid	Do not accept a square that does not use the grid lines.
Total	**1**		

Question number	18		
Part	**Mark**	**Answer**	**Further Information**
	1	600 (chairs)	
Total	**1**		

Question number	19	CPM100606	
Part	**Mark**	**Answer**	**Further Information**
	1	64 × 10 odd 37 × 4 63 × 7 14 × 3 even	
Total	**1**		

Question number	20		
Part	**Mark**	**Answer**	**Further Information**
	2		Award 1 mark for 3 or 4 fractions correctly placed. Any fraction placed in more than one column should be marked as incorrectly placed.

Less than one half	Equal to one half	Greater than one half	
$\dfrac{5}{12}$ $\dfrac{45}{100}$	$\dfrac{10}{20}$	$\dfrac{4}{6}$ $\dfrac{6}{10}$	

Total	**2**		

Question number	21		
Part	**Mark**	**Answer**	**Further Information**
	1	(0.36) 0.38 0.46 0.48 (0.64) 0.74	
Total	**1**		

Question number	22		
Part	**Mark**	**Answer**	**Further Information**
	1	$\dfrac{3}{5}$	
Total	**1**		

Question number	23		
Part	**Mark**	**Answer**	**Further Information**
	1	Arrow points to 650 grams 	
Total	**1**		

Question number	24		
Part	**Mark**	**Answer**	**Further Information**
	2	270 (passengers)	Award 1 mark for a correct method containing any number of arithmetic errors, e.g. $315 - (315 \div 7)$ **or** $\dfrac{6}{7}$ of 315 **or** for sight of 45
Total	**2**		

Question number	25		
Part	**Mark**	**Answer**	**Further Information**
	1	83(mm)	Accept 82 – 84(mm)
Total	**1**		

Question number	26		
Part	**Mark**	**Answer**	**Further Information**
	1	14th November	Do not allow just 14 (th)
Total	**1**		

Question number	27		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	14	
(b)	1	15	Do not accept 24 – 9 without answer.
Total	**2**		

Question number	28		
Part	**Mark**	**Answer**	**Further Information**
	2		Award 1 mark for any 2 or 3 lines of 3 counters with a total of 1.2 **or** all lines of 3 counters having a total of 1.2 but some counters are used more than once (not all counters used).
Total	**2**		

Question number	29		
Part	**Mark**	**Answer**	**Further Information**
	1	1.8 ③ ⑨ 12 ⑱ 36	
Total	**1**		

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MATHEMATICS   **0845/02**

Paper 2   **October 2016**

MARK SCHEME

Maximum Mark: 40

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Question number	1		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	74	
(b)	1	48	
Total	**2**		

Question number	2		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	20 (children)	
(b)	1		
Total	**2**		

Question number	3		
Part	**Mark**	**Answer**	**Further Information**
	1	1290, 1291 **or** 1292	
Total	**1**		

Question number	4		
Part	**Mark**	**Answer**	**Further Information**
	1	179 (days)	
Total	**1**		

Question number	5		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	7:50 (am)	
(b)	1	1:15 pm	Accept 13:15 or any other correct alternative. Do not accept 1:15 only.
Total	**2**		

Question number	6		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	(A =) 80 (B =) 250 (accept 248 – 252 inclusive)	
(b)	1	Accept any mark between 3.8 cm and 4.6 cm along the scale.	
Total	**2**		

Question number	7		
Part	**Mark**	**Answer**	**Further Information**
	1	2 hundredths (2 tenths) 2 tens 2 hundreds	
Total	**1**		

Question number	8		
Part	**Mark**	**Answer**	**Further Information**
	1	3 **and** 5 (in any order) 4	
Total	**1**		

Question number	9		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	13 × 100 = 130 × [10]	
(b)	1	260 ÷ [10] = 2600 ÷ 100	
Total	**2**		

Question number	10		
Part	**Mark**	**Answer**	**Further Information**
	1	2	
Total	**1**		

Question number	11		
Part	**Mark**	**Answer**	**Further Information**
	1	✓	
Total	**1**		

Question number	12		
Part	**Mark**	**Answer**	**Further Information**
	1		Condone loops through 4 and / or 100 e.g.
Total	**1**		

Question number	13		
Part	**Mark**	**Answer**	**Further Information**
	1	4.5 × 2	
Total	**1**		

Question number	14		
Part	**Mark**	**Answer**	**Further Information**
	1	4 ⑦ 9 ⑪ 14 ⑲ 20	
Total	**1**		

Question number	15		
Part	**Mark**	**Answer**	**Further Information**
	2		Award 1 mark for 1 or 2 digits correct.
Total	**2**		

Question number	16		
Part	**Mark**	**Answer**	**Further Information**
	1		
Total	**1**		

Question number	17		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	(−7, −6)	
(b)	1		
Total	**2**		

Question number	18		
Part	**Mark**	**Answer**	**Further Information**
	1		
Total	**1**		

Question number	19		
Part	**Mark**	**Answer**	**Further Information**
	1	–0.2 0.3 0.8 1.3 1.8 2.3	
Total	**1**		

Question number	20		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	75 (ringgits)	Accept 73 – 77 inclusive.
(b)	1	100 (dollars)	
Total	**2**		

Question number	21		
Part	**Mark**	**Answer**	**Further Information**
	1	($)1.04	
Total	**1**		

Question number	22		
Part	**Mark**	**Answer**	**Further Information**
	1	Any of the following answers: 4.170(m), 4.171(m), 4.172 (m), 4.173(m) 4.174(m), 4.175(m), 4.176(m), 4.177(m), 4.178(m), 4.179(m), 4.180(m)	
Total	**1**		

Question number	23		
Part	**Mark**	**Answer**	**Further Information**
	1	40 (%)	
Total	**1**		

Question number	24	CPM	
Part	**Mark**	**Answer**	**Further Information**
	1	No is ticked together with a correct explanation e.g. • $\frac{1}{3} = 33.3\%$ • $30\% = \frac{30}{100}$ or $\frac{3}{10}$ • $30\% \times 3 = 90\%$ but $\frac{1}{3} \times 3 = 1$ (or 100%)	
Total	**1**		

Question number	25		
Part	**Mark**	**Answer**	**Further Information**
	1	60 and 90	
Total	**1**		

Question number	26		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	36.6 (km)	
(b)	1	22.5 (miles)	
Total	**2**		

Question number	27		
Part	**Mark**	**Answer**	**Further Information**
	2	Ticks the L shape **and** Shows calculations giving the two perimeters, for example: • Perimeters are 32 and 34 cm **or** Explains that both shapes have the same width but the L-shape is taller, for example: • Both shapes have a width of 10 cm but the L-shape is taller • Both shapes are the same width but the L-shape is 1 cm taller so the perimeter is 2 cm larger than the other shape	Award 1 mark for sight of 32 and 34 cm without a choice being made. **or** Award 1 mark for a correct method which involves adding all sides of the respective shapes but contains arithmetic errors leading to a choice.
Total	**2**		

Question number	28		
Part	**Mark**	**Answer**	**Further Information**
	1		
Total	**1**		

Question number	29		
Part	**Mark**	**Answer**	**Further Information**
	1	13 (books) **or** 33 (books)	
Total	**1**		

Question number	30		
Part	**Mark**	**Answer**	**Further Information**
	1		
Total	**1**		

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MATHEMATICS   **0845/01**

Paper 1   **October 2015**

MARK SCHEME

Maximum Mark: 40

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Question number	1		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	33	
(b)	1	350	
Total	**2**		

Question number	2		
Part	**Mark**	**Answer**	**Further Information**
	1	152	
Total	**1**		

Question number	3		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	3760	
(b)	1	480	
Total	**2**		

Question number	4		
Part	**Mark**	**Answer**	**Further Information**
	1	Saturday	Allow clear abbreviations.
Total	**1**		

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Mathematics　　　　**191**　　　　iMok Educare : +919967462256

Question number	5		
Part	**Mark**	**Answer**	**Further Information**
	1	Accept any 2 squares shaded, for example:	Accept shading equivalent to 2 whole squares if part squares are used.
Total	**1**		

Question number	6		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	Draws a rectangle 5 cm by 2 cm, e.g. or	Do not accept rectangles whose vertices are not dots on the grid. Do not accept diagonal lines.
(b)	1	14 (cm)	Follow through from **(a)** provided the sides of the rectangle are horizontal and vertical, no diagonals.
Total	**2**		

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Question number	7		
Part	**Mark**	**Answer**	**Further Information**
	1	1.62 (m)	
Total	**1**		

Question number	8		
Part	**Mark**	**Answer**	**Further Information**
(a)	1		

Shoe colour	Tally	Frequency
Black	卌 ‖	7
Blue	卌	5
Brown	‖‖‖	4
White	‖	2

(b)	1	Black	
Total	**2**		

Question number	9		
Part	**Mark**	**Answer**	**Further Information**
	1	210	
Total	**1**		

Question number	10		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	4 (blocks)	
(b)	1	65 (cm)	
Total	**2**		

Question number	11		
Part	**Mark**	**Answer**	**Further Information**
	1	2 × 12 3 × 8 4 × 6	
Total	**1**		

Question number	12		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	2600	
(b)	1	3570	
Total	**2**		

Question number	13		
Part	**Mark**	**Answer**	**Further Information**
	1	3981	
Total	**1**		

Question number	14		
Part	**Mark**	**Answer**	**Further Information**
	1	−3	
Total	**1**		

Question number	15		
Part	**Mark**	**Answer**	**Further Information**
(a)	1		
(b)	1	118	
Total	**2**		

Question number	16		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	60 (°)	
(b)	1	isosceles	
Total	**2**		

Question number	17		
Part	**Mark**	**Answer**	**Further Information**
	1	1477	
Total	**1**		

Question number	18		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	38.4	
(b)	1	768	
Total	**2**		

Question number	19		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	18 000	
(b)	1	1.8	
Total	**2**		

Question number	20		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	2 hundreds 2 tens 2 units 2 tenths (2 hundredths)	
(b)	1	5 thousands	
Total	**2**		

Question number	21		
Part	**Mark**	**Answer**	**Further Information**
	1	5 + 10 (cm) 6 + 9 (cm) in any order 7 + 8 (cm)	
Total	**1**		

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Question number	22		
Part	**Mark**	**Answer**	**Further Information**
	1	5.40 **or** 05.4	
Total	**1**		

Question number	23		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	3	
(b)	1	An explanation that compares the frequency of a 2 occurring with the frequency of each of the other numbers occurring, for example: • There is only one 2 and there are more ones and threes • 2 is the least common number • There are more ones and threes than twos. **or** An explanation that refers to the probability of 2 occurring, for example: • probability of 2 is only $\frac{1}{8}$	
Total	**2**		

Question number	24		
Part	**Mark**	**Answer**	**Further Information**
	1	15 (°C)	
Total	**1**		

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Mathematics　　　　**197**　　　　iMok Educare : +919967462256

Question number	25		
Part	**Mark**	**Answer**	**Further Information**
	2	14 (beads)	Award 1 mark for: Showing 35 split into groups of 5 (3 large and 2 small beads). **or** Gives the answer 21 (number of large beads required).
Total	**2**		

Question number	26		
Part	**Mark**	**Answer**	**Further Information**
	1	An example of 2 square numbers with an even total. The square numbers must both be odd or both be even, for example 1 + 1 = 2 4 + 16 = 20	The correct calculation must be shown for the award of the mark.
Total	**1**		

Question number	27		
Part	**Mark**	**Answer**	**Further Information**
	1		
Total	**1**		

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MATHEMATICS   **0845/02**

Paper 2   **October 2015**

MARK SCHEME

Maximum Mark: 40

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Question number	1		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	28 **and** 46	
(b)	1	43 **and** 52	
Total	**2**		

Question number	2		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	16 **and** 22	
(b)	1	5, 1 **and** −1	
Total	**2**		

Question number	3		
Part	**Mark**	**Answer**	**Further Information**
	1	290 (°)	
Total	**1**		

Question number	4		
Part	**Mark**	**Answer**	**Further Information**
	1	$\dfrac{6}{10}$	Accept equivalent fractions such as $\dfrac{3}{5}$ **or** $\dfrac{60}{100}$
Total	**1**		

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Question number	5		
Part	**Mark**	**Answer**	**Further Information**
	2	352 354 423 425 432 435	Award 2 marks for 6 correct numbers with no additional incorrect numbers. Award 1 mark for 6 correct numbers with any number of additional numbers. OR 4 or 5 correct numbers with/without additional numbers.
Total	**2**		

Question number	6		
Part	**Mark**	**Answer**	**Further Information**

	1	$\frac{1}{2}$ of 56 22
		   23
		$\frac{1}{3}$ of 78 24
		   25
		$\frac{1}{4}$ of 92 26
		   27
		$\frac{1}{5}$ of 125 28	

Total	**1**		

Question number	7			
Part	**Mark**	**Answer**		**Further Information**
	2	$\frac{3}{4}$	✓	Award 1 mark for two correct ticks.
		0.05	✓	
		$\frac{34}{100}$	✓	
Total	**2**			

Question number	8	
Part	**Mark**	**Answer**	**Further Information**
	1	60 × 21 in either order	
Total	**1**		

Question number	9	
Part	**Mark**	**Answer**	**Further Information**
	1	42.5 (cm)	
Total	**1**		

Question number	10		
Part	**Mark**	**Answer**	**Further Information**
(a)	1		
(b)	1	2 squares to the right and 3 squares down **or** 3 squares down and 2 squares to the right.	
Total	**2**		

Question number	11		
Part	**Mark**	**Answer**	**Further Information**
	1	44 (bags)	
Total	**1**		

Question number	12		
Part	**Mark**	**Answer**	**Further Information**
	1	No AND An explanation that numbers in the sequence always end in 1 <u>or</u> 6 **or** An explanation that numbers in the 5 times table always end in 0 or 5 **or** An explanation that correctly identifies that the starting number of the sequence needs to be 0 or a multiple of 5 **or** An explanation that the numbers in the sequence are always 1 more than a multiple of 5	
Total	**1**		

Question number	13		
Part	**Mark**	**Answer**	**Further Information**
	1	0.8 1.1 1.4 1.7	
Total	**1**		

Question number	14	
Part	**Mark**	**Answer**	**Further Information**
	1		
Total	**1**		

Question number	15	
Part	**Mark**	**Answer**	**Further Information**
(a)	1	15 (km)	
(b)	1	Any explanation that shows he had stopped, for example: Having a rest Stopped to mend a puncture	
Total	**2**		

Question number	16	
Part	**Mark**	**Answer**	**Further Information**
	2	< > = =	For 1 mark any 3 answers must be correct.
Total	**2**		

Question number	17		
Part	**Mark**	**Answer**	**Further Information**
	1	⑦ 9 10 ⑪ 15 ⑰	
Total	**1**		

Question number	18		
Part	**Mark**	**Answer**	**Further Information**
	1	$\frac{1}{2} = \frac{3}{6}$ or $\frac{2}{1} = \frac{6}{3}$ **or** $\frac{1}{3} = \frac{2}{6}$ or $\frac{3}{1} = \frac{6}{2}$ **or** $\frac{2}{3} = \frac{4}{6}$ or $\frac{3}{2} = \frac{6}{4}$ **or** $\frac{2}{4} = \frac{3}{6}$ or $\frac{4}{2} = \frac{6}{3}$	
Total	**1**		

Question number	19		
Part	**Mark**	**Answer**	**Further Information**
	1	($) 6.40	
Total	**1**		

Question number	20		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	12 (edges)	
(b)	1	8 (vertices)	
Total	**2**		

Question number	21		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	68 (minutes)	
(b)	1	Cecity	
Total	**2**		

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Question number	22		
Part	**Mark**	**Answer**	**Further Information**
(a)	1		
(b)	1	(isosceles) trapezium	If the shape plotted in **(a)** is not a trapezium then "trapezium" should not be awarded a mark. If the shape plotted in **(a)** is a quadrilateral which is correctly named, one mark should be awarded.
Total	**2**		

Question number	23		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	11	
(b)	1	38	
Total	**2**		

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Question number	24		
Part	**Mark**	**Answer**	**Further Information**
	2	3 5 3 . 7 — 8 4 . 4 8 2 6 9 . 2 2	For 1 mark accept any 3 or 4 correct values.
Total	**2**		

Question number	25		
Part	**Mark**	**Answer**	**Further Information**
	2	28 (pens)	Award 1 mark for evidence of a complete method. e.g. (12 ÷ 3) × 7 **or** for sight of **40** indicating total number of pens.
Total	**2**		

Question number	26		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	6	
(b)	1	4 (%)	
Total	**2**		

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SCIENCE   **0846/01**
Paper 1   **For Examination from 2014**
SPECIMEN MARK SCHEME

                                                                  45 minutes

MAXIMUM MARK: 50

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Question	1		
Part	**Mark**	**Answer**	**Further Information**
	2		Each correct answer = 1 mark

definition	life process
(responding and reacting)	(sensitivity)
(producing young / offspring)	reproduction
(turning food into energy)	respiration

| **Total** | **2** | | |

Question	2		
Part	**Mark**	**Answer**	**Further Information**
(a)	2	feature: mottled skin explanation: for camouflage / hide from predators **or** feature: eyes above Explanation: see better **or** feature: flat explanation: hide from predators	**Accept** blends in / looks like sand / camouflaged. feature = 1 mark explanation = 1 mark
(b)	1	method: rod and line explanation: less of this fish removed/caught.	Both correct = 1 mark.
Total	**3**		

Mathematics

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Question	3		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	1 day **or** 24 hours **or** 23 hours 56 minutes	
(b)	1	The Sun does not move. ✓ The Sun goes round the Moon. ☐ The Sun orbits the Earth ☐ The Sun travels round the Earth. ☐	If more than one box ticked = 0 marks
Total	**2**		

Question	4		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	(idea of) close / operate / press the switch	
(b)	2		2 cells and 2 lamps and 1 switch = 2 marks 1 cell and 2 lamps and 1 switch = 1 mark 2 cells and 1 lamp and 1 switch = 1 mark 2 cells and 2 lamps and no switch = 1 marks **Accept** switch open or closed
Total	**3**		

Question	5		
Part	**Mark**	**Answer**	**Further Information**
	3	They are made of **metal**. The wires are covered in **plastic**. Any material that is a non-conductor is an **insulator**.	**Accept** named materials e.g. copper **Accept** rubber / insulator Each correct sentence = 1 mark
Total	**3**		

Question	6		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	tighten the drum skin ✓ slacken the drum skin strike the drum harder strike the drum softer	If more than one box ticked = 0 marks
(b)	3	**true / false** Sound can travel around corners. — true ✓ Sound can spread out in all directions. — true ✓ Sound cannot travel through solids. — false ✓ Sound can travel through liquids. — true ✓ Sound can travel in a vacuum. — false ✓	5 correct = 3 marks 3 or 4 correct = 2 marks 2 correct = 1 mark If 2 boxes ticked for a statement = 0 marks for that statement
Total	**4**		

Question	7		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	turns into a liquid	**Accept** turns into salt solution / salt water
(b)	1	0 (^{o}C)	
(c)	1	The **greater/higher** the mass of salt in the solution the **lower** the melting point.	**Accept** the **smaller/lower** the mass of salt in the solution the **higher** the melting point
(d)	1	–5 (^{o}C)	**Accept** 4 g / grams
(e)	1	make results more reliable / to check results	**Accept** to make sure the results are reliable **Do not accept** to make the results more accurate
Total	**5**		

Question	8		
Part	**Mark**	**Answer**	**Further Information**
(a)	2	**C**, **D**, **B** in that order	3 correct = 2 marks 2 correct = 1 mark 1 correct = 0 marks
(b)	1	**A** and **C**	More than 1 answer circled = 0 marks
(c)	1	(pulling force) increases	
Total	**4**		

Question	9		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	plankton / plant $\rightarrow$ fish $\rightarrow$ penguin	All correct = 1 mark
(b)	2	(leaves) $\rightarrow$ insect $\rightarrow$ (small) bird $\rightarrow$ owl	Correct order = 1 mark All three arrows in correct direction = 1 mark
Total	3		

Question	10		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	16(mm)	**Accept** 250 g
(b)	2	**Any two from:** - repeat the investigation - use different size tubes - use different size masses - use longer / shorter pieces of paper - use longer / shorter tubes	
(c)	1	(idea of) less mass / lighter in mass	
Total	4		

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Question	11		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	(some) coffee dissolves / a solution is made	
(b)	1	all of the coffee powder is soluble **some of the coffee powder is insoluble** all of the coffee powder is insoluble some of the coffee powder is frozen	More than one answer circled = 0 marks
(c)	2	The brown solid on the filter paper is the **residue**. The brown solution in the beaker is the **filtrate**.	Each answer = 1 mark **Accept** mixture instead of filtrate
(d)	1	goes colourless ☐ becomes a lighter brown ☐ stays the same ☐ becomes a darker brown ✓	More than one answer ticked = 0 marks
Total	5		

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Question	12		
Part	**Mark**	**Answer**	**Further Information**
(a)	2	**Any two from:** - same type of seed - height dropped - mass / weight of seed - speed of fan - distance from fan	Each correct answer = 1 mark
(b)	3		All correct = 3 marks Any 3 correct = 2 marks Any 2 correct = 1 mark
(c)	1	5	
(d)	1	animal dispersal explosive dispersal self dispersal water dispersal (**wind dispersal**)	More than one answer circled = 0 marks
Total	**7**		

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Question	13		
Part	**Mark**	**Answer**	**Further Information**
(a)	2	<table><tr><th>Mixture</th><th>chemical reaction</th><th>makes a solution</th><th>does not react or make a solution</th></tr><tr><td>**A**</td><td></td><td></td><td>✓</td></tr><tr><td>**B**</td><td></td><td>✓</td><td></td></tr><tr><td>**C**</td><td>✓</td><td></td><td></td></tr><tr><td>**D**</td><td></td><td>✓</td><td></td></tr></table>	4 correct = 2 marks 2 or 3 correct = 1 mark 1 correct = 0 marks
(b)	1	**C**	
(c)	1	(idea of) the ingredients chemically reacting to form something else	**Accept** that it is a chemical reaction/gas given off/bubbles given off **Do not accept** 'it cannot be reversed'
(d)	1	(idea of) evaporating the water to leave the salt behind	**Accept** heat / boil.
Total	5		

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Cambridge Primary Checkpoint

SCIENCE   **0846/02**

Paper 2   **For Examination from 2014**

SPECIMEN MARK SCHEME

                                                                        45 minutes

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MAXIMUM MARK: 50

This document consists of **10** printed pages.

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International Examinations

[Turn over

Question	1		
Part	**Mark**	**Answer**	**Further Information**
	2	The Sun takes 1 year to orbit the Earth. ☐ The Earth takes 1 year to orbit the Sun. ✓ The Earth takes 24 hours to orbit the Sun. ☐ The Earth spins on its axis once every 24 hours. ✓ The Earth spins on its axis once every year. ☐	2 ticks, both correct = 2 marks 2 ticks, 1 correct = 1 mark 3 ticks, 2 correct = 1 mark 3 ticks, 1 correct = 0 mark 4 or 5 ticks = 0 mark
Total	**2**		

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Question	2		
Part	**Mark**	**Answer**	**Further Information**
(a)	1		Both columns correct = 1 mark

living things	things that have never lived
kangaroo	rock
rat	sand
seaweed	

(b)	1	it grows ✓ it feels warm it can get smaller it makes young ones ✓	2 ticks, both correct = 1 mark 2 ticks, 1 correct = 0 marks 3 ticks, 2 correct = 0 marks 4 ticks = 0 marks
Total	2		

Question	3		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	<table><tr><th>solid</th><th>liquid</th><th>gas</th></tr><tr><td>butter</td><td>orange juice</td><td>steam</td></tr><tr><td>chocolate</td><td>water</td><td></td></tr><tr><td>ice</td><td></td><td></td></tr></table>	All correct = 1 mark
(b)	1	melting	
(c)	1	freezing	
(d)	1	(turns to) steam / water vapour /a gas / evaporates	**Do not accept** it gets hot
Total	**4**		

Question	4		
Part	**Mark**	**Answer**	**Further Information**
(a)	2	term meaning producer — an animal that eats another animal predator — a green plant that makes its own food prey — an animal that is eaten	3 correct = 2 marks 1 or 2 correct = 1 mark
(b)	1	a plant that eats another plant a plant that eats an animal **an animal that eats a plant** a plant that eats plants and animals	More than 1 circle = 0 marks
Total	**3**		

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Mathematics

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Question	5		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	The puppet makes an image called a **shadow** on the screen.	
(b)	1	move the puppet away from the light / move puppet towards screen	
(c)	1		Both boxes ticked = 0 marks
(d)	1	no image / no shadow	**Accept** the word nothing or no 'light coming through' or blank screen
Total	**4**		

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Question	6		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	**B**	**Accept** 78 2 or more answers = 0 marks
(b)	1	**C**	**Accept** 100 2 or more answers = 0 marks
(c)	2	During boiling liquid changes into a **gas**. During freezing liquid changes into a **solid**.	Each correct sentence = 1 mark
Total	**4**		

Question	7		
Part	**Mark**	**Answer**	**Further Information**
	1	measure the shoots ☐ put the pots in the same place ✓ measures each shoot on a different day ☐ uses 4 different pots ☐	1 tick, correct = 1 mark 2 ticks, 1 correct = 0 marks 3 ticks, 1 correct = 0 marks 4 ticks = 0 marks
Total	**1**		

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Question	8		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	**B** and **C**	
(b)	1	**D**	
(c)	2	animals hooks to fur / they stick to the animal	Each correct answer = 1 mark
Total	**4**		

Question	9		
Part	**Mark**	**Answer**	**Further Information**
	3		Each correct answer = 1 mark Each measurement must only have one line coming from it
Total	**3**		

Question	10		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	predaceous insects	**Do not accept** insects
(b)	2	foxes, owls, snakes	Any order 3 correct = 2 marks 2 correct = 1 mark 1 correct = 0 marks
(c)	1	**Any one from:** plants → mice → foxes plants → mice → owls plants → mice → snakes	
Total	**4**		

Question	11		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	vibration(s)	
(b)	1	hits a smaller key	
(c)	1	13:00	**Accept** 1 pm
(d)	1	gets louder **and** then softer/quieter	**Accept** goes up **and** then goes down
(e)	1	insulates from sound	**Accept** absorbs / muffles sound **or** does not let sound through / foam is sound proof / foam stops sound
Total	**5**		

Question	12		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	chalk	
(b)	1	sugar solution	**Do not accept** solution
(c)	1	2 (g)	
Total	**3**		

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Question	13		
Part	**Mark**	**Answer**	**Further Information**
(a)	2	**from** **to** the body ⟶ the heart ☐ the lungs ⟶ the body ☐ the heart ⟶ the lungs ✔ the heart ⟶ the body ✔	1 mark for each

(b)	2	oxygen
		
		nutrients / food
			Either order
			Allow O_2 for oxygen
			Accept hormones,
			        water,
			        enzymes,
			        sugar,
			        proteins,
			        glucose

(c)	1	carbon dioxide	**Accept** CO_2
Total	**5**		

[Turn over

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Question	14		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	good conductor of electricity	**Do not accept** 'good conductor' unqualified
(b)	2	good conductor of heat high melting point	**Do not accept** 'good conductor' unqualified Each correct answer = 1 mark 3 reasons, and 2 correct = 1 mark 3 reasons, and 1 correct = 0 marks 4 reasons = 0 marks
Total	**3**		

Question	15		
Part	**Mark**	**Answer**	**Further Information**
(a)	1	ruler / rule	
(b)	1	conclusion measurement method (prediction)	More than 1 circled = 0 marks
(c)	1	clamp base to bench / wear goggles (or eye protection / spectacles)	**Accept** any suitable safety precaution relevant to this investigation
Total	**3**		

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

MATHEMATICS   **0842/01**

Paper 1   **May/June 2010**

MARK SCHEME

Maximum Mark : 39

This document consists of **13** printed pages and **3** blank pages.

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Mathematics mark schemes – Achievement Test

Guidelines for marking test papers

These mark schemes are designed to provide you with all the information necessary to mark the Primary Mathematics Achievement Tests. As far as possible, the mark schemes give you full guidance regarding acceptable and unacceptable alternative answers and, where appropriate, include examples of student work to illustrate the marking points. However, it is not always possible to predict all the alternative answers that may be produced by students and there could be places where the marker will have to use their professional judgement. In these cases it is essential that such judgement be applied consistently.

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- A correct answer should always be awarded full marks even if the working shown is wrong.

- Where more than one mark is available for a question the mark scheme explains where each mark should be awarded. In some cases marks are available for demonstration of the correct method even if the final answer is incorrect. The method marks can be awarded if the correct method is used but a mistake has been made in the calculation, resulting in a wrong answer. Method marks can also be awarded if the calculation is set up and performed correctly but incorrect values have been used, e.g. due to misreading the question or a mistake earlier in a series of calculations.

- If a question uses the answer to a previous question or part question that the student answered incorrectly, all available marks can be awarded for the latter question if appropriate calculations are performed correctly using the value carried forward. Places where such consideration should be made are indicated in the mark schemes. In these cases, it is not possible to provide all the alternative acceptable answers and the marker must follow the student's working to determine whether credit should be given or not.

- Half marks should not be awarded and at no point should an answer be awarded more than the maximum number of marks available, regardless of the quality of the answer.

- If the student has given more than one answer, the marks can be awarded if all the answers given are correct. However, if correct and incorrect answers are given together, marks should not be awarded (marks for correct working out can still be gained).

- If the answer line is blank but the correct answer is given elsewhere, e.g. an annotation on a graph or at the end of the working out, the marks can be awarded provided it is clear that the student has understood the requirements of the question.

- If the response on the answer line is incorrect but the correct answer is shown elsewhere, full marks can still be awarded if the student has made the error when copying the answer onto the answer line. If the incorrect final answer is the result of redundant additional working after the correct answer had been reached, the marks can be awarded provided the extra work does not contradict that already done.

- Each question and part question should be considered independently and marks for one question should not be disallowed if they are contradicted by working or answers in another question or part question.

- Any legible crossed-out work that has not been replaced can be marked; but, if work has been replaced, the crossed-out part should be ignored.
- If the student's response is numerically or algebraically equivalent to the answer in the mark scheme, the mark should be given unless a particular form of answer was specified by the question.
- Diagrams, symbols or words are acceptable for explanations or responses.
- Where students are required to indicate the correct answer in a specific way, e.g. by underlining, marks should be awarded for any unambiguous indication, e.g. circling or ticking.
- Any method of setting out working should be accepted.
- Standard rules for acceptable formats of answers involving units, money, duration and time are given overleaf.

Each question on the test paper has a box beside it for the teacher to record the mark obtained. It is advisable to use these boxes so that students, and others looking at the test papers, can clearly see where the marks have been awarded.

It should also be noted that marking in red ink and using the mark boxes is an essential requirement for the Achievement tests.

A working marksheet, together with instructions for its completion, is included in this mark scheme. A completed copy should be despatched with the moderation sample.

General rules for alternative answers

In most places on the mark schemes acceptable and unacceptable alternative answers are given in detail, however some general rules are given overleaf and are not necessarily repeated in full for each question that they apply.

Number and Place Value

The table shows various general rules in terms of acceptable decimal answers.

Accept
Accept omission of leading zero if answer is clearly shown, e.g. **.675**
Accept tailing zeros, unless the question has asked for a specific number of decimal places, e.g. **0.7000**
Always accept appropriate tailing zeros, e.g. **3.00m; 5.000kg**
Accept a comma as a decimal point if that is the convention that you have taught the students, e.g. **0,638**

Units

For questions involving quantities, e.g. length, mass, time or money, correct units must be given in the answer. The table shows acceptable and unacceptable versions of the answer 1.85m.

	Correct answer	Also accept	Do not accept
Units are not given on answer line and question does not specify unit for the answer.	1.85m	Correct conversions provided that the unit is stated, e.g. 1m 85cm 185cm 1850mm 0.00185km	1.85 185m
If the unit is given on the answer line, e.g. ……………………………m	…..1.85…… m	Correct conversions, provided the unit is stated unambiguously, e.g. …..185cm….. m	…..185……m …..1850.… m etc.
If the question states the unit that the answer should be given in a specified unit, e.g. "Give your answer in metres"	1.85m	1.85 1m 85cm	185; 1850 Any conversions to other units, e.g. 185cm

Note: if the answer line is left blank but the correct answer is given elsewhere on the page, it can be marked correct if the units match those on the answer line or are unambiguously stated.

Money

For questions involving money, it is essential that appropriate units are given in the answer.

The table shows acceptable and unacceptable versions.

	Accept	Do not accept
If the amount is in dollars and cents, the answer should be given to two decimal places.	$0.30 $9 or $9.00	
If units are not given on answer line	Any unambiguous indication of the correct amount, e.g. 30 cents; 30 c $0.30; $0.30c; $0.30cents $0-30; $0=30; $0:30	30 or 0.30 without a unit Incorrect or ambiguous answers, e.g. $0.3; $30; $30cents; 0.30cents
If $ is shown on the answer line	$.......**0.30**……. $.......**0.30 cents**…. Accept all unambiguous indications, as shown above	$.......**30**……. $.......**30 cents**…. (this cannot be accepted because it is ambiguous, but if the dollar sign is deleted it becomes acceptable)
If cents is shown on the answer line	.......**30**…….cents ....**$0.30**…….cents	.......**0.30**…….cents ....**$30**…….cents

Duration

Accept any unambiguous method of showing duration and all reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs).

Accept	Do not accept
Any unambiguous indication using any reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs), e.g. 2 hours 30 minutes; 2h 30m; 02h 30m 5 min 24 sec; 00h 05m 24s	Incorrect or ambiguous formats, e.g. 2.30; 2.3; 2.30 hours; 2.30 min; 2h 3; 2.3h
Any correct conversion with appropriate units, e.g. 2.5 hours; 150 mins 324 seconds	2.5; 150 324
Also accept unambiguous digital stopwatch format, e.g. 02:30:00 00:05:24; 05:24s	Do not accept ambiguous indications, e.g. 02:30 5.24

0842/01/MS/M/J/10   **[Turn over**

Mathematics   **236**   iMok Educare : +919967462256

Time

There are many ways to write times, in both numbers and words, and marks should be awarded for any unambiguous method. Accept time written in numbers or words unless there is a specific instruction in the question. Some examples are given in the table.

Accept	Do not accept
Any unambiguous indication of correct answer in numbers, words or a combination of the two, e.g. 07:30, 19:00	Incorrect or ambiguous formats, e.g.
0730; 07 30; 07.30; 07,30; 07-30; 7.30; 730 a.m.; 7.30am; 7.30 in the morning	07.3; 073; 07 3; 730; 73; 7.3; 7.3am; 7.30p.m
Half past seven (o'clock) in the morning Thirty minutes past seven am Also accept: O-seven-thirty	
1900; 19 00; 19_00 etc.	19; 190; 19 000; 19.00am; 7.00am
Nineteen hundred (hours) Seven o'clock in the afternoon/evening	
Accept correct conversion to 12-hour clock, e.g. 16:42 4:42 p.m.	4.42am; 0442; 4.42
Sixteen forty two Four-forty-two in the afternoon/evening Four forty two p.m. Forty two (minutes) past four p.m. Eighteen (minutes) to five in the evening	Forty two (minutes) past sixteen Eighteen (minutes) to seventeen
Also accept a combination of numbers and words, e.g. 18 minutes to 5 p.m. 42 minutes past 4 in the afternoon	

0842/01/MS/M/J/10

	Question		Mark	Answer	
1		3Nc13	1	170	

	Question		Mark	Answer	
2		3Nn6	1	5 (5) 5	

	Question		Mark	Answer	
3		4Ss2	1		Both must be indicated for 1 mark.

	Question		Mark	Answer	
4	**a**	3P7	1	16 (cents)	
	b	3P7	1	4 (cents)	If part (a) incorrect, award mark if 20 minus part (a) is correct.
	c	3P8	1		If part (b) incorrect, award mark if part (c) is correct follow-through from (b) using coins shown.

	Question		Mark	Answer	
5	**a**	3Nn5	1		
	b	3Nn5	1		

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	Question		Mark	Answer	
6		3Sp2	1		Both directions must be given to earn the mark.

	Question		Mark	Answer	
7	**a**	3Sm3	1	300 (centimetres)	
	b	3Sm3	1	2000 (metres)	

	Question	Mark	Answer	
8	3D1	1		Both letters must be correct to earn the mark.

	Question	Mark	Answer	
9	5Nc9	1	4 x 8 = **32** 9 x **6** = 54	Both correct for 1 mark.

	Question	Mark	Answer	
10	4Sp10	1	2 1 4 3	

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	Question		Mark	Answer	
11		5P1	1	13 (boxes)	

	Question		Mark	Answer	
12		4D4	1	20	

	Question		Mark	Answer	
13		5P6	1	11 (hours)	

	Question		Mark	Answer	
14		4Sm4	1	650 (ml)	

	Question		Mark	Answer	
15		6Nc7	1	1500	

	Question		Mark	Answer	
16		5Sm5	1	Any line 56 – 58 mm inclusive	Do not accept if a ruler has not been used.

		Question		Mark	Answer	
17	**a**	4Nn14	1	Any 3 squares should be shaded	
	b	4Nn14	1	Tim	
	c	4Nn14	1	$\dfrac{4}{12}$	

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	Question	Mark	Answer	
18	5Nc4	1	12.05	

	Question	Mark	Answer	
19 a	6Nn1	1	468	Accept 468.0
b	6Nn1	1	5.7	Accept 5.700 or 5.70

	Question	Mark	Answer	
20	5Sp2	1	Pair **2** are perpendicular lines. Pair **1** are parallel lines.	Both sentences must be correct to earn the mark.

	Question	Mark	Answer	
21 a	6Nc8	1	24.5	
b	6Nc8	1	1.4	

	Question	Mark	Answer	
22 a	4Sm9	1	0602 (answer shown here is written as given in timetable)	Also accept: 06:02, 06.02, 6:02 am., 6.02 am.
b	4Sm9	1	20 (minutes)	

	Question	Mark	Answer	
23	6Ss3	1	7	

	Question	Mark	Answer	
24	4P1	2	21	2 marks for correct answer. If final answer is incorrect, 1 mark can be awarded if there is evidence of working out $\frac{1}{4}$ of 56 = 14

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Question			Mark	Answer	
25	**a**	6D4	1	5	
	b	6D4	1	10	
	c	6D5	1	9	

Question			Mark	Answer	
26	**a**	6P6	1		Both numbers must be correct to earn the mark.
	b	6P6	1	36	

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Mathematics

Please read the instructions printed overleaf before completing this form.

Centre Number

Centre Name

Candidate Number	Candidate Name	Question Number																																								Total Mark
		1	2	3	4a	4b	4c	5a	5b	6	7a	7b	8	9	10	11	12	13	14	15	16	17a	17b	17c	18	19a	19b	20	21a	21b	22a	22b	23	24	25a	25b	25c	26a	26b	max 39

Teacher completing this form (BLOCK CAPITALS)   Date

Name of moderator (BLOCK CAPITALS)   Date

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A. **INSTRUCTIONS FOR COMPLETING WORKING MARK SHEET**

1. Complete the information at the head of the form.

2. List the candidates in an order which will allow ease of transfer of information to a computer-printed mark sheet (MS1) at a later stage (i.e. in candidate index number order, where this is known).

3. Enter each candidate's marks on this form as follows:

   a) In the question columns, enter the marks awarded.

   b) In the columns headed 'Total Mark', enter the total mark awarded.

4. Ensure that the addition of marks is independently checked.

5. Both the teacher completing this form and the internal moderator should check the form and complete the bottom portion.

B. **PROCEDURES FOR EXTERNAL MODERATION**

1. University of Cambridge International Examinations (CIE) sends a computer-printed mark sheet (MS1) to each centre showing the name and index number of each candidate. Transfer the total internally moderated mark for each candidate from this WORKING MARK SHEET to the computer-printed mark sheet (MS1).

2. Despatch the top copy of the computer-printed mark sheet (MS1) to CIE. The deadlines for receipt of this completed document are 15 June for the June examination and 16 November for the November examination.

3. Send samples of the candidates' work covering the full ability range, together with this form and the second copy of MS1, by 15 June for the June examination and 16 November for the November examination.

4. If there are 10 or fewer candidates entering the Achievement Test, send all the scripts for every candidate.

5. If there are more than 10 candidates, send the scripts that contributed to the final mark for the number of candidates as follows. The marks of the candidates' work selected should cover the whole mark range with marks spaced as evenly as possible from the top mark to the lowest mark.

number of candidates entered	number of candidates whose work is required
11-50	10
51-100	15
above 100	20

6. If different teachers have prepared classes, select the samples from the classes of different teachers.

7. CIE reserves the right to ask for further samples of scripts.

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

MATHEMATICS   **0842/02**

Paper 2   **May/June 2010**

MARK SCHEME

Maximum Mark : 39

This document consists of **14** printed pages and **2** blank pages.

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[Turn over

Mathematics mark schemes – Achievement Test

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- If the answer line is blank but the correct answer is given elsewhere, e.g. an annotation on a graph or at the end of the working out, the marks can be awarded provided it is clear that the student has understood the requirements of the question.

- If the response on the answer line is incorrect but the correct answer is shown elsewhere, full marks can still be awarded if the student has made the error when copying the answer onto the answer line. If the incorrect final answer is the result of redundant additional working after the correct answer had been reached, the marks can be awarded provided the extra work does not contradict that already done.

- Each question and part question should be considered independently and marks for one question should not be disallowed if they are contradicted by working or answers in another question or part question.

- Any legible crossed-out work that has not been replaced can be marked; but, if work has been replaced, the crossed-out part should be ignored.

- If the student's response is numerically or algebraically equivalent to the answer in the mark scheme, the mark should be given unless a particular form of answer was specified by the question.

- Diagrams, symbols or words are acceptable for explanations or responses.

- Where students are required to indicate the correct answer in a specific way, e.g. by underlining, marks should be awarded for any unambiguous indication, e.g. circling or ticking.

- Any method of setting out working should be accepted.

- Standard rules for acceptable formats of answers involving units, money, duration and time are given overleaf.

Each question on the test paper has a box beside it for the teacher to record the mark obtained. It is advisable to use these boxes so that students, and others looking at the test papers, can clearly see where the marks have been awarded.

It should also be noted that marking in red ink and using the mark boxes is an essential requirement for the Achievement tests.

A working marksheet, together with instructions for its completion, is included in this mark scheme. A completed copy should be despatched with the moderation sample.

General rules for alternative answers

In most places on the mark schemes acceptable and unacceptable alternative answers are given in detail, however some general rules are given overleaf and are not necessarily repeated in full for each question that they apply.

Number and Place Value

The table shows various general rules in terms of acceptable decimal answers.

Accept
Accept omission of leading zero if answer is clearly shown, e.g. **.675**
Accept tailing zeros, unless the question has asked for a specific number of decimal places, e.g. **0.7000**
Always accept appropriate tailing zeros, e.g. **3.00m; 5.000kg**
Accept a comma as a decimal point if that is the convention that you have taught the students, e.g. **0,638**

Units

For questions involving quantities, e.g. length, mass, time or money, correct units must be given in the answer. The table shows acceptable and unacceptable versions of the answer 1.85m.

	Correct answer	Also accept	Do not accept
Units are not given on answer line and question does not specify unit for the answer.	1.85m	Correct conversions provided that the unit is stated, e.g. 1m 85cm 185cm 1850mm 0.00185km	1.85 185m
If the unit is given on the answer line, e.g. …………………………m	…..1.85…… m	Correct conversions, provided the unit is stated unambiguously, e.g. …..185cm….. m	…..185……m …..1850.… m etc.
If the question states the unit that the answer should be given in a specified unit, e.g. "Give your answer in metres."	1.85m	1.85 1m 85cm	185; 1850 Any conversions to other units, e.g. 185cm

Note: if the answer line is left blank but the correct answer is given elsewhere on the page, it can be marked correct if the units match those on the answer line or are unambiguously stated.

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Mathematics

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Money

For questions involving money, it is essential that appropriate units are given in the answer.

The table shows acceptable and unacceptable versions.

	Accept	Do not accept
If the amount is in dollars and cents, the answer should be given to two decimal places.	$0.30 $9 or $9.00	
If units are not given on answer line	Any unambiguous indication of the correct amount, e.g. 30 cents; 30 c $0.30; $0.30c; $0.30cents $0-30; $0=30; $0:30	30 or 0.30 without a unit Incorrect or ambiguous answers, e.g. $0.3; $30; $30cents; 0.30cents
If $ is shown on the answer line	$.......**0.30**……. $.......**0.30 cents….** Accept all unambiguous indications, as shown above	$.......**30**……. $.......**30 cents….** (this cannot be accepted because it is ambiguous, but if the dollar sign is deleted it becomes acceptable)
If cents is shown on the answer line	.......**30**…….cents ....**$0.30**…….cents	.......**0.30**…….cents ....**$30**…….cents

Duration

Accept any unambiguous method of showing duration and all reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs).

Accept	Do not accept
Any unambiguous indication using any reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs), e.g. 2 hours 30 minutes; 2h 30m; 02h 30m 5 min 24 sec; 00h 05m 24s	Incorrect or ambiguous formats, e.g. 2.30; 2.3; 2.30 hours; 2.30 min; 2h 3; 2.3h
Any correct conversion with appropriate units, e.g. 2.5 hours; 150 mins 324 seconds	2.5; 150 324
Also accept unambiguous digital stopwatch format, e.g. 02:30:00 00:05:24; 05:24s	Do not accept ambiguous indications, e.g. 02:30 5.24

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Time

There are many ways to write times, in both numbers and words, and marks should be awarded for any unambiguous method. Accept time written in numbers or words unless there is a specific instruction in the question. Some examples are given in the table.

Accept	Do not accept
Any unambiguous indication of correct answer in numbers, words or a combination of the two, e.g. 07:30, 19:00	Incorrect or ambiguous formats, e.g.
0730; 07 30; 07.30; 07,30; 07-30; 7.30; 730 a.m.; 7.30am; 7.30 in the morning	07.3; 073; 07 3; 730; 73; 7.3; 7.3am; 7.30p.m
Half past seven (o'clock) in the morning Thirty minutes past seven am Also accept: O-seven-thirty	
1900; 19 00; 19_00 etc.	19; 190; 19 000; 19.00am; 7.00am
Nineteen hundred (hours) Seven o'clock in the afternoon/evening	
Accept correct conversion to 12-hour clock, e.g. 16:42 4:42 p.m.	4.42am; 0442; 4.42
Sixteen forty two Four-forty-two in the afternoon/evening Four forty two p.m. Forty two (minutes) past four p.m. Eighteen (minutes) to five in the evening	Forty two (minutes) past sixteen Eighteen (minutes) to seventeen
Also accept a combination of numbers and words, e.g. 18 minutes to 5 p.m. 42 minutes past 4 in the afternoon	

	Question	Mark	Answer	
1	3Nn4	1	(140) 209 (238) 345 499	Both correct for 1 mark. Accept any indication.

	Question	Mark	Answer	
2	3Sp3	1		All three ticked or otherwise indicated for 1 mark.

	Question	Mark	Answer	
3	3Nc5	1	219	

	Question	Mark	Answer	
4	3Sm9	1		All three correct for 1 mark.

	Question	Mark	Answer	
5	6P1	1		All 3 lines must be correct to earn the mark.

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	Question	Mark	Answer	
6	4Sp7	1	360 (º)	

	Question	Mark	Answer	
7 **a**	3Nn8	1	22 (years old)	
b	3Nn8	1	2 (years old)	
c	3Nn8	1	11 (years old)	

	Question	Mark	Answer	
8 **a**	5Sm5	1	72 (mm)	Accept answer between 70 and 74.
b	5Sm5	1	Correct straight line	Accept lines which measure from 47 to 49 mm, inclusive. Lines must be drawn with a ruler and must not have any change of direction.

	Question	Mark	Answer	
9	3P2	2	**8** **1** × **4** = 324 **5** **4** × **6** = 324 **3** **6** × **9** = 324	1 mark for each correct calculation. Maximum of 2 marks.

	Question	Mark	Answer	
10	4Ss4	1	tetrahedron square pyramid ✓ triangular prism cone	

	Question	Mark	Answer	
11	5Nn23 5Nn20	2		1 mark for each correct answer. Maximum of 2 marks.

Fraction	Decimal	Percentage
$\frac{1}{4}$	0.25	**25 %**
$\frac{1}{2}$	**0.5** Accept 0.50	50 %

	Question	Mark	Answer	
12	5Nc13	1	85	

	Question	Mark	Answer	
13	4Ss3	1		All three must be indicated for 1 mark.

	Question	Mark	Answer	
14	4Nc6	1	156 remainder 1	

		Question	Mark	Answer	
15	**a**	5D2	1	($) 82	
	b	5D2	1	Adult tickets = **3**	1 mark for each answer.
			1	Child tickets = **4**	

	Question	Mark	Answer	
16	5P6	2	($) 30	If answer is incorrect award 1 mark for a complete correct method. For example, 40 – (40 ÷ 4) = wrong answer. Or 1 mark for correct calculation of 25% of 40. 10 must be seen.

	Question	Mark	Answer	
17	5Sp6	1	110º	

	Question	Mark	Answer	
18 a	6Sp1	1	(-4, 2)	
b	6Sp1	1	(2, -3)	

	Question	Mark	Answer	
19	6Nc2	1	$3 \times (5 + 2) \times 4 = 84$	

	Question	Mark	Answer	
20	6Sm7	1	The time in New Mexico is 4 pm. The time in Oregon is 3 pm.	Both sentences must be correct to earn the mark.

	Question	Mark	Answer	
21	6Nn9	1	2, 3, 7	Accept $2 \times 3 \times 7$ in any order All numbers must be given for 1 mark. Accept in any order.

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Question		Mark	Answer	
22	6Nn11	1	$\dfrac{1}{3}$	

Question		Mark	Answer	
23 **a**	6D5	1	3	
b	6D4	1	1	

Question		Mark	Answer	
24	6Nn15	1	4.534 4.345 3.544 3.454	All in correct order for 1 mark.

Question		Mark	Answer	
25	5P6	3	($) 40	If final answer incorrect, award marks as follows: Award 2 mark for evidence of **both** 5 and 10 Award 1 mark for evidence of **either** 5 **or** 10 Award 1 mark for evidence of 25 + 5 + 10 = correct answer, where **one** of 5 or 10 is incorrect

Question		Mark	Answer	
26	6P6	1	7.2	

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Mathematics

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Question		Mark	Answer	
27	6Nc1	1	All six cards used once, in any order to correctly make a sum of 4.71. For example, $$\begin{array}{cccc} & 3 & \cdot & 2 & 5 \\ + & 1 & \cdot & 4 & 6 \\ \hline & 4 & \cdot & 7 & 1 \end{array}$$	Do not accept cards used more than once or numbers other than those given.

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0842/2/CW/S

CAMBRIDGE INTERNATIONAL PRIMARY PROGRAMME
ACHIEVEMENT TEST – MATHEMATICS PAPER 2
JUNE 2010 0842/02

Please read the instructions printed overleaf before completing this form.

Centre Number

Centre Name

Candidate Number	Candidate Name	1	2	3	4	5	6	7a	7b	7c	8a	8b	9	10	11	12	13	14	15a	15b	16	17	18a	18b	19	20	21	22	23a	23b	24	25	26	27	Total Mark max 39

Question Number

Teacher completing this form (BLOCK CAPITALS)   Date

Name of moderator (BLOCK CAPITALS)   Date

UNIVERSITY *of* CAMBRIDGE
International Examinations

0842/2/CW/S

A. INSTRUCTIONS FOR COMPLETING WORKING MARK SHEET

1. Complete the information at the head of the form.

2. List the candidates in an order which will allow ease of transfer of information to a computer-printed mark sheet (MS1) at a later stage (i.e. in candidate index number order, where this is known).

3. Enter each candidate's marks on this form as follows:

   a) In the question columns, enter the marks awarded.

   b) In the columns headed 'Total Mark', enter the total mark awarded.

4. Ensure that the addition of marks is independently checked.

5. Both the teacher completing this form and the internal moderator should check the form and complete the bottom portion.

B. PROCEDURES FOR EXTERNAL MODERATION

1. University of Cambridge International Examinations (CIE) sends a computer-printed mark sheet (MS1) to each centre showing the name and index number of each candidate. Transfer the total internally moderated mark for each candidate from this WORKING MARK SHEET to the computer-printed mark sheet (MS1).

2. Despatch the top copy of the computer-printed mark sheet (MS1) to CIE. The deadlines for receipt of this completed document are 15 June for the June examination and 16 November for the November examination.

3. Send samples of the candidates' work covering the full ability range, together with this form and the second copy of MS1, by 15 June for the June examination and 16 November for the November examination.

4. If there are 10 or fewer candidates entering the Achievement Test, send all the scripts for every candidate.

5. If there are more than 10 candidates, send the scripts that contributed to the final mark for the number of candidates as follows. The marks of the candidates' work selected should cover the whole mark range with marks spaced as evenly as possible from the top mark to the lowest mark.

number of candidates entered	number of candidates whose work is required
11-50	10
51-100	15
above 100	20

6. If different teachers have prepared classes, select the samples from the classes of different teachers.

7. CIE reserves the right to ask for further samples of scripts.

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Mathematics

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

MATHEMATICS   **0842/01**

Paper 1   **May/June 2009**

MARK SCHEME

Maximum Mark : 39

IMPORTANT NOTICE

Mark Schemes have been issued on the basis of **one** copy per Assistant examiner and two copies per Team Leader.

This document consists of **11** printed pages and **1** blank page.

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International Examinations

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Mathematics mark schemes – Achievement Test

Guidelines for marking test papers

These mark schemes are designed to provide you with all the information necessary to mark the Primary Mathematics Achievement Tests. As far as possible, the mark schemes give you full guidance regarding acceptable and unacceptable alternative answers and, where appropriate, include examples of student work to illustrate the marking points. However, it is not always possible to predict all the alternative answers that may be produced by students and there could be places where the marker will have to use their professional judgement. In these cases it is essential that such judgement be applied consistently.

The guidelines below should be followed throughout (**unless the mark scheme states otherwise**):

- A correct answer should always be awarded full marks even if the working shown is wrong.
- Where more than one mark is available for a question the mark scheme explains where each mark should be awarded. In some cases marks are available for demonstration of the correct method even if the final answer is incorrect. The method marks can be awarded if the correct method is used but a mistake has been made in the calculation, resulting in a wrong answer. Method marks can also be awarded if the calculation is set up and performed correctly but incorrect values have been used, e.g. due to misreading the question or a mistake earlier in a series of calculations.
- If a question uses the answer to a previous question or part question that the student answered incorrectly, all available marks can be awarded for the latter question if appropriate calculations are performed correctly using the value carried forward. Places where such consideration should be made are indicated in the mark schemes. In these cases, it is not possible to provide all the alternative acceptable answers and the marker must follow the student's working to determine whether credit should be given or not.
- Half marks should not be awarded and at no point should an answer be awarded more than the maximum number of marks available, regardless of the quality of the answer.
- If the student has given more than one answer, the marks can be awarded if all the answers given are correct. However, if correct and incorrect answers are given together, marks should not be awarded (marks for correct working out can still be gained).
- If the answer line is blank but the correct answer is given elsewhere, e.g. an annotation on a graph or at the end of the working out, the marks can be awarded provided it is clear that the student has understood the requirements of the question.
- If the response on the answer line is incorrect but the correct answer is shown elsewhere, full marks can still be awarded if the student has made the error when copying the answer onto the answer line. If the incorrect final answer is the result of redundant additional working after the correct answer had been reached, the marks can be awarded provided the extra work does not contradict that already done.
- Each question and part question should be considered independently and marks for one question should not be disallowed if they are contradicted by working or answers in another question or part question.
- Any legible crossed-out work that has not been replaced can be marked; but, if work has been replaced, the crossed-out part should be ignored.

- If the student's response is numerically or algebraically equivalent to the answer in the mark scheme, the mark should be given unless a particular form of answer was specified by the question.

- Diagrams, symbols or words are acceptable for explanations or responses.

- Where students are required to indicate the correct answer in a specific way, e.g. by underlining, marks should be awarded for any unambiguous indication, e.g. circling or ticking.

- Any method of setting out working should be accepted.

- Standard rules for acceptable formats of answers involving units, money, duration and time are given overleaf.

Each question on the test paper has a box beside it for the teacher to record the mark obtained. It is advisable to use these boxes so that students, and others looking at the test papers, can clearly see where the marks have been awarded.

It should also be noted that marking in red ink and using the mark boxes is an essential requirement for the Achievement tests.

General rules for alternative answers

In most places on the mark schemes acceptable and unacceptable alternative answers are given in detail, however some general rules are given overleaf and are not necessarily repeated in full for each question that they apply.

Number and Place value

The table shows various general rules in terms of acceptable decimal answers.

Accept
Accept omission of leading zero if answer is clearly shown, e.g. **.675**
Accept tailing zeros, unless the question has asked for a specific number of decimal places, e.g. **0.7000**
Always accept appropriate tailing zeros, e.g. **3.00m; 5.000kg**
Accept a comma as a decimal point if that is that convention that you have taught the students, e.g. **0,638**

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Units

For questions involving quantities, e.g. length, mass, time or money, correct units must be given in the answer. The table shows acceptable and unacceptable versions of the answer 1.85m.

	Correct answer	Also accept	Do not accept
Units are not given on answer line and question does not specify unit for the answer.	1.85m	Correct conversions provided that the unit is stated, e.g. 1m 85cm 185cm 1850mm 0.00185km	1.85 185m
If the unit is given on the answer line, e.g. …………………………………m	…..1.85…… m	Correct conversions, provided the unit is stated unambiguously, e.g. …..185cm….. m	…..185……m …..1850…. m etc.
If the question states the unit that the answer should be given in a specified unit, e.g. "Give your answer in metres"	1.85m	1.85 1m 85cm	185; 1850 Any conversions to other units, e.g. 185cm

Note: if the answer line is left blank but the correct answer is given elsewhere on the page, it can be marked correct if the units match those on the answer line or are unambiguously stated.

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Money

For questions involving money, it is essential that appropriate units are given in the answer.

The table shows acceptable and unacceptable versions.

	Accept	Do not accept
If the amount is in dollars and cents, the answer should be given to two decimal places.	$0.30 $9 or $9.00	
If units are not given on answer line	Any unambiguous indication of the correct amount, e.g. 30 cents; 30 c $0.30; $0.30c; $0.30cents $0-30; $0=30; $0:30	30 or 0.30 without a unit Incorrect or ambiguous answers, e.g. $0.3; $30; $30cents; 0.30cents
If $ is shown on the answer line	$.......**0.30**....... $.......**0.30 cents….** Accept all unambiguous indications, as shown above	$.......**30**....... $.......**30 cents….** (this cannot be accepted because it is ambiguous, but if the dollar sign is deleted it becomes acceptable)
If cents is shown on the answer line	.......**30**.......cents ....**$0.30**.......cents	.......**0.30**.......cents ....**$30**.......cents

Duration

Accept any unambiguous method of showing duration and all reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs).

Accept	Do not accept
Any unambiguous indication using any reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs), e.g. 2 hours 30 minutes; 2h 30m; 02h 30m 5 min 24 sec; 00h 05m 24s	Incorrect or ambiguous formats, e.g. 2.30; 2.3; 2.30 hours; 2.30 min; 2h 3; 2.3h
Any correct conversion with appropriate units, e.g. 2.5 hours; 150 mins 324 seconds	2.5; 150 324
Also accept unambiguous digital stopwatch format, e.g. 02:30:00 00:05:24; 05:24s	Do not accept ambiguous indications, e.g. 02:30 5.24

Time

There are many ways to write times, in both numbers and words, and marks should be awarded for any unambiguous method. Accept time written in numbers or words unless there is a specific instruction in the question. Some examples are given in the table.

Accept	Do not accept
Any unambiguous indication of correct answer in numbers, words or a combination of the two, e.g. 07:30, 19:00	Incorrect or ambiguous formats, e.g.
0730; 07 30; 07.30; 07,30; 07-30; 7.30; 730 a.m.; 7.30am; 7.30 in the morning	07.3; 073; 07 3; 730; 73; 7.3; 7.3am; 7.30p.m
Half past seven (o'clock) in the morning Thirty minutes past seven am Also accept: O-seven-thirty	
1900; 19 00; 19_00 etc.	19; 190; 19 000; 19.00am; 7.00am
Nineteen hundred (hours) Seven o'clock in the afternoon/evening	
Accept correct conversion to 12-hour clock, e.g. 16:42 4:42 p.m.	4.42am; 0442; 4.42
Sixteen forty two Four-forty-two in the afternoon/evening Four forty two p.m. Forty two (minutes) past four p.m. Eighteen (minutes) to five in the evening	Forty two (minutes) past sixteen Eighteen (minutes) to seventeen
Also accept a combination of numbers and words, e.g. 18 minutes to 5 p.m. 42 minutes past 4 in the afternoon	

Question		Mark	Answer	Additional Information
1	2Nn5	1	5, 10	Both correct for one mark.

Question		Mark	Answer	Additional Information
2	2P3	1	**True**	1 mark for **True**
		1	1 mark for any acceptable reason. e.g.	
			because odd numbers end in an odd number.	Any indication of this
			because even numbers end in an even number.	Any indication of this
			because no odd numbers can be divided by 2, and 8 can be divided by 2	Do not accept because 8 is an even number / is not an odd number
			because all even numbers can be divided by 2. Eight can be divided by 2.	
			0 marks for **False** with any explanation	

Question		Mark	Answer	Additional Information
3	3Nc3	1	Either 11 − 3 = 8 Or 11 = 3 + 8	

	Question	Mark	Answer	Additional Information
4	3P2	2	Award two marks for any suitable diagrams. e.g. Any two **congruent** shapes correctly divided are acceptable.	Allow 1 mark if the two diagrams drawn are split into halves and thirds respectively but are not congruent. e.g.

	Question	Mark	Answer	Additional Information
5	3Sp3	1		Both correct shapes must be ticked.

	Question	Mark	Answer	Additional Information
6a	3Sp2	1	Shape C	Also accept trapezium
b	4Sp4	1	B	Also accept circle
c	4Sp4	1	South West	Also accept SW

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	Question	Mark	Answer	Additional Information
7	3Sm9	1	Ten twenty-five; twenty-five past ten; twenty-five minutes past ten. Accept any equivalent statement in words.	Do not accept if any part of the answer is in numerals.

	Question	Mark	Answer	Additional Information
8a	4Nn1	1	10 523	
b	4Nn1	1	10 accept 'One ten' or 'one 10' or 'ten'	Accept any reasonable explanation

	Question	Mark	Answer	Additional Information
9a	4Nn7	1	730	
b	4Nn7	1	500	

	Question	Mark	Answer	Additional Information
10	4P3	1	Add four / +4 or equivalent answer which explains an increase of 4 each time.	Also accept expression for n^{th} term: 4n – 2 or equivalent.

	Question	Mark	Answer	Additional Information
11	4D2	1	4, 5, 6	All three correct for 1 mark

	Question	Mark	Answer	Additional Information
12a	4D4	1	America	
b	6D4	1	Asia	
c	6D4	1	6	Accept 9 – 3 = 6
d	6D5	1	5	
e	6D5	1	6	Accept 30 ÷ 5 = 6

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Question		Mark	Answer	Additional Information
13	4Ss4	1	Isosceles	Any indication.

Question		Mark	Answer	Additional Information
14a	5Nn2	1	978 600	
b	5Nn2	1	836.2	

Question		Mark	Answer	Additional Information
15	5Nc1	1	23 + **77** = 100	
		1	**0.4** +0.6 = 100	

Question		Mark	Answer	Additional Information
16a	5Ss1	1	Accept any suitable triangle, e.g	2 sides MUST be equal. 1 angle must be between 90-180°
b	5Ss1	1	Accept any correct statement relating to a rectangle. e.g. Two pairs of equal sides Two lines of symmetry Diagonals bisect each other	Also accept any equivalent statement.

Question		Mark	Answer	Additional Information
17a	5Sm2	1	**4250** (g)	
b	5Sm2	1	**750** (ml)	

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	Question	Mark	Answer	Additional Information
18	6Nc2	1	(4 + 3) x (6 – 2) = 28 4 + (3 x 6) – 2 = 20	

	Question	Mark	Answer	Additional Information
19	6Sp3	1	Accept answers between 126° and 130° inclusive Where the angle is drawn the lines should be clearly straight.	

	Question	Mark	Answer	Additional Information
20	6Sm6	1	20 cm^2	

	Question	Mark	Answer	Additional Information
21	**6Nn12**	1	$\frac{4}{5}$ $\frac{7}{10}$ $\frac{1}{2}$ $\frac{2}{5}$ Largest Smallest	

	Question	Mark	Answer	Additional Information
22a	**6P4**	1	56	
b	**6P4**	1	7x or equivalent	

	Question	Mark	Answer	Additional Information
23	**4Nc - 13**	1	7600	

	Question	Mark	Answer	Additional Information
24	**6Ss_3**	1	A	

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

MATHEMATICS   **0842/02**

Paper 2   **May/June 2009**

MARK SCHEME

Maximum Mark : 39

IMPORTANT NOTICE

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2

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- If a question uses the answer to a previous question or part question that the student answered incorrectly, all available marks can be awarded for the latter question if appropriate calculations are performed correctly using the value carried forward. Places where such consideration should be made are indicated in the mark schemes. In these cases, it is not possible to provide all the alternative acceptable answers and the marker must follow the student's working to determine whether credit should be given or not.

- Half marks should not be awarded and at no point should an answer be awarded more than the maximum number of marks available, regardless of the quality of the answer.

- If the student has given more than one answer, the marks can be awarded if all the answers given are correct. However, if correct and incorrect answers are given together, marks should not be awarded (marks for correct working out can still be gained).

- If the answer line is blank but the correct answer is given elsewhere, e.g. an annotation on a graph or at the end of the working out, the marks can be awarded provided it is clear that the student has understood the requirements of the question.

- If the response on the answer line is incorrect but the correct answer is shown elsewhere, full marks can still be awarded if the student has made the error when copying the answer onto the answer line. If the incorrect final answer is the result of redundant additional working after the correct answer had been reached, the marks can be awarded provided the extra work does not contradict that already done.

- Each question and part question should be considered independently and marks for one question should not be disallowed if they are contradicted by working or answers in another question or part question.

- Any legible crossed-out work that has not been replaced can be marked; but, if work has been replaced, the crossed-out part should be ignored.

3

- If the student's response is numerically or algebraically equivalent to the answer in the mark scheme, the mark should be given unless a particular form of answer was specified by the question.
- Diagrams, symbols or words are acceptable for explanations or responses.
- Where students are required to indicate the correct answer in a specific way, e.g. by underlining, marks should be awarded for any unambiguous indication, e.g. circling or ticking.
- Any method of setting out working should be accepted.
- Standard rules for acceptable formats of answers involving units, money, duration and time are given overleaf.

Each question on the test paper has a box beside it for the teacher to record the mark obtained. It is advisable to use these boxes so that students, and others looking at the test papers, can clearly see where the marks have been awarded.

It should also be noted that marking in red ink and using the mark boxes is an essential requirement for the Achievement tests.

General rules for alternative answers

In most places on the mark schemes acceptable and unacceptable alternative answers are given in detail, however some general rules are given overleaf and are not necessarily repeated in full for each question that they apply.

Number and Place value

The table shows various general rules in terms of acceptable decimal answers.

Accept
Accept omission of leading zero if answer is clearly shown, e.g. **.675**
Accept tailing zeros, unless the question has asked for a specific number of decimal places, e.g. **0.7000**
Always accept appropriate tailing zeros, e.g. **3.00m; 5.000kg**
Accept a comma as a decimal point if that is that convention that you have taught the students, e.g. **0,638**

4

Units

For questions involving quantities, e.g. length, mass, time or money, correct units must be given in the answer. The table shows acceptable and unacceptable versions of the answer 1.85m.

	Correct answer	Also accept	Do not accept
Units are not given on answer line and question does not specify unit for the answer.	1.85m	Correct conversions provided that the unit is stated, e.g. 1m 85cm 185cm 1850mm 0.00185km	1.85 185m
If the unit is given on the answer line, e.g. …………………………m	…..1.85…… m	Correct conversions, provided the unit is stated unambiguously, e.g. …..185cm….. m	…..185……m …..1850…. m etc.
If the question states the unit that the answer should be given in a specified unit, e.g. "Give your answer in metres"	1.85m	1.85 1m 85cm	185; 1850 Any conversions to other units, e.g. 185cm

Note: if the answer line is left blank but the correct answer is given elsewhere on the page, it can be marked correct if the units match those on the answer line or are unambiguously stated.

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Money

For questions involving money, it is essential that appropriate units are given in the answer.

The table shows acceptable and unacceptable versions.

	Accept	**Do not accept**
If the amount is in dollars and cents, the answer should be given to two decimal places.	$0.30 $9 or $9.00	
If units are not given on answer line	Any unambiguous indication of the correct amount, e.g. 30 cents; 30 c $0.30; $0.30c; $0.30cents $0-30; $0=30; $0:30	30 or 0.30 without a unit Incorrect or ambiguous answers, e.g. $0.3; $30; $30cents; 0.30cents
If $ is shown on the answer line	$.......**0.30**....... $.......**0.30 cents….** Accept all unambiguous indications, as shown above	$.......**30**....... $.......**30 cents….** (this cannot be accepted because it is ambiguous, but if the dollar sign is deleted it becomes acceptable)
If cents is shown on the answer line	.......**30**.......cents ....**$0.30**.......cents	.......**0.30**.......cents ....**$30**.......cents

Duration

Accept any unambiguous method of showing duration and all reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs).

Accept	Do not accept
Any unambiguous indication using any reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs), e.g. 2 hours 30 minutes; 2h 30m; 02h 30m 5 min 24 sec; 00h 05m 24s	Incorrect or ambiguous formats, e.g. 2.30; 2.3; 2.30 hours; 2.30 min; 2h 3; 2.3h
Any correct conversion with appropriate units, e.g. 2.5 hours; 150 mins 324 seconds	2.5; 150 324
Also accept unambiguous digital stopwatch format, e.g. 02:30:00 00:05:24; 05:24s	Do not accept ambiguous indications, e.g. 02:30 5.24

Time

There are many ways to write times, in both numbers and words, and marks should be awarded for any unambiguous method. Accept time written in numbers or words unless there is a specific instruction in the question. Some examples are given in the table.

Accept	Do not accept
Any unambiguous indication of correct answer in numbers, words or a combination of the two, e.g. 07:30, 19:00	Incorrect or ambiguous formats, e.g.
0730; 07 30; 07.30; 07,30; 07-30; 7.30; 730 a.m.; 7.30am; 7.30 in the morning	07.3; 073; 07 3; 730; 73; 7.3; 7.3am; 7.30p.m
Half past seven (o'clock) in the morning	
Thirty minutes past seven am	
Also accept: O-seven-thirty	
1900; 19 00; 19_00 etc.	19; 190; 19 000; 19.00am; 7.00am
Nineteen hundred (hours)	
Seven o'clock in the afternoon/evening	
Accept correct conversion to 12-hour clock, e.g. 16:42	4.42am; 0442; 4.42
4:42 p.m.	
Sixteen forty two	Forty two (minutes) past sixteen
Four-forty-two in the afternoon/evening	Eighteen (minutes) to seventeen
Four forty two p.m.	
Forty two (minutes) past four p.m.	
Eighteen (minutes) to five in the evening	
Also accept a combination of numbers and words, e.g.	
18 minutes to 5 p.m.	
42 minutes past 4 in the afternoon	

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	Question	Mark	Answer	
1	2Nn7	1	91, 79, 47, 43	

	Question	Mark	Answer	
2	3Nn12	1	Any 2 chickens circled	

	Question	Mark	Answer	
3a	3Nc4	1	65	
b	3Nc14	1	900	

	Question	Mark	Answer	
4a	3P8	2	2 marks for correct answer ($)34.73	1 mark for evidence of: 35.27 + 30 and 100 – 65.27 (or pupil's own answer) = wrong answer N.B. $5 x 6 is insufficient working for 1 mark
b	4P6	2	No – with correct calculation e.g. 22.43 x 3 = 67.29 or 65 ÷ 22.43 = 2.8979 < 3	Also accept estimated calculations such as: 22 x 3 = 66 > 65 Allow 1 mark for No unsupported by correct calculation

	Question	Mark	Answer	
5a	4Nn1	1	43 075	
b	4Nn1	1	six thousand, four hundred and fifty-nine	**Accept any** answer that is recognisable as the correct answer (misspelling is allowed)

	Question	Mark	Answer	
6	4Nn10	1	765 and 567 should be circled	

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	Question	Mark	Answer	
7	4Nc15	1	256 + 58 = 314	

	Question	Mark	Answer	
8	4P5	1	6 (pencils)	Do not accept $6\frac{2}{3}$ or 6 remainder 10

	Question	Mark	Answer	
9	4P4	1	Half of 60 is 30, half of 8 is 4, so 30 add 4 is 34 or equivalent correct explanation	Sentences containing figures are acceptable.

	Question	Mark	Answer	
10a	4D5	1	5	
b	4D5	1	12	

	Question	Mark	Answer	
11a	3Ss3	1	2 (lines of symmetry)	
b	4Ss1	1	accept rectangle or rhombus	Accept a correct drawing showing a shape with two lines of symmetry

	Question	Mark	Answer	
12a	4Sp8	1	90°	
b	4Sp7	1	4	

	Question	Mark	Answer	
13a	5Sp1	1	(3, 1)	
b	5Sp1	1	Cross in the correct place	(7,6)

	Question	Mark	Answer	
14a	6Nn4	1	17, 19	They must be written in the correct order to get the mark.
b	6Nn8	1	2	
c	6Nn8	1	no	

	Question	Mark	Answer	
15	6Nc3	1	23178.8	

	Question	Mark	Answer			
16	6P2	3	4	**5**	9	All four correct 3 marks
			11	6	**1**	Three correct 2 marks
			3	**7**	8	Two correct 1 mark One or none correct 0 mark

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	Question	Mark	Answer	
17a	6D3	1	yes	
b	6D3	1	accept **either**: mean = 18 secs **or:** mode / median = 18.2 secs	
c	6D5	1	certain likely (unlikely) impossible	

	Question	Mark	Answer	
18	6Sm6	2	**5.85 m²** 2.5 x 1.8 = 4.5 m² 1.5 x 1.8 ÷ 2 = 1.35 m² 4.5 + 1.35 = 5.85 m²	**Units must be given.** Allow 1 mark if correct working out shown but incorrect final answer.

	Question	Mark	Answer	
19	**6Nc9**	1	$\frac{1}{3}$	

	Question	Mark	Answer	
20	**6Nn13**	1	15 (red flowers)	

	Question	Mark	Answer	
21	6Sm2	1	2395 (kg)	

	Question	Mark	Answer	
22a	6Sm6	1	2 cm, 1 cm and 6 cm (working from the top down)	
b	6Sm6	1	26 cm	

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

MATHEMATICS   **0842/01**

Paper 1   **October/November 2009**

MARK SCHEME

Maximum Mark : 39

IMPORTANT NOTICE

Mark Schemes have been issued on the basis of **one** copy per Assistant examiner and **two** copies per Team Leader.

This document consists of **13** printed pages and **3** blank pages.

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International Examinations

[Turn over

Mathematics mark schemes – Achievement Test

Guidelines for marking test papers

These mark schemes are designed to provide you with all the information necessary to mark the Primary Mathematics Achievement Tests. As far as possible, the mark schemes give you full guidance regarding acceptable and unacceptable alternative answers and, where appropriate, include examples of student work to illustrate the marking points. However, it is not always possible to predict all the alternative answers that may be produced by students and there could be places where the marker will have to use their professional judgement. In these cases it is essential that such judgement be applied consistently.

The guidelines below should be followed throughout (**unless the mark scheme states otherwise**):

- A correct answer should always be awarded full marks even if the working shown is wrong.

- Where more than one mark is available for a question the mark scheme explains where each mark should be awarded. In some cases marks are available for demonstration of the correct method even if the final answer is incorrect. The method marks can be awarded if the correct method is used but a mistake has been made in the calculation, resulting in a wrong answer. Method marks can also be awarded if the calculation is set up and performed correctly but incorrect values have been used, e.g. due to misreading the question or a mistake earlier in a series of calculations.

- If a question uses the answer to a previous question or part question that the student answered incorrectly, all available marks can be awarded for the latter question if appropriate calculations are performed correctly using the value carried forward. Places where such consideration should be made are indicated in the mark schemes. In these cases, it is not possible to provide all the alternative acceptable answers and the marker must follow the student's working to determine whether credit should be given or not.

- Half marks should not be awarded and at no point should an answer be awarded more than the maximum number of marks available, regardless of the quality of the answer.

- If the student has given more than one answer, the marks can be awarded if all the answers given are correct. However, if correct and incorrect answers are given together, marks should not be awarded (marks for correct working out can still be gained).

- If the answer line is blank but the correct answer is given elsewhere, e.g. an annotation on a graph or at the end of the working out, the marks can be awarded provided it is clear that the student has understood the requirements of the question.

- If the response on the answer line is incorrect but the correct answer is shown elsewhere, full marks can still be awarded if the student has made the error when copying the answer onto the answer line. If the incorrect final answer is the result of redundant additional working after the correct answer had been reached, the marks can be awarded provided the extra work does not contradict that already done.

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- Each question and part question should be considered independently and marks for one question should not be disallowed if they are contradicted by working or answers in another question or part question.

- Any legible crossed-out work that has not been replaced can be marked; but, if work has been replaced, the crossed-out part should be ignored.

- If the student's response is numerically or algebraically equivalent to the answer in the mark scheme, the mark should be given unless a particular form of answer was specified by the question.

- Diagrams, symbols or words are acceptable for explanations or responses.

- Where students are required to indicate the correct answer in a specific way, e.g. by underlining, marks should be awarded for any unambiguous indication, e.g. circling or ticking.

- Any method of setting out working should be accepted.

- Standard rules for acceptable formats of answers involving units, money, duration and time are given overleaf.

Each question on the test paper has a box beside it for the teacher to record the mark obtained. It is advisable to use these boxes so that students, and others looking at the test papers, can clearly see where the marks have been awarded.

It should also be noted that marking in red ink and using the mark boxes is an essential requirement for the Achievement tests.

A working marksheet, together with instructions for its completion, is included in this mark scheme. A completed copy should be despatched with the moderation sample.

General rules for alternative answers

In most places on the mark schemes acceptable and unacceptable alternative answers are given in detail, however some general rules are given overleaf and are not necessarily repeated in full for each question that they apply.

Number and Place value
The table shows various general rules in terms of acceptable decimal answers.

Accept
Accept omission of leading zero if answer is clearly shown, e.g. **.675**
Accept tailing zeros, unless the question has asked for a specific number of decimal places, e.g. **0.7000**
Always accept appropriate tailing zeros, e.g. **3.00m; 5.000kg**
Accept a comma as a decimal point if that is that convention that you have taught the student, e.g. **0,638**

Units

For questions involving quantities, e.g. length, mass, time or money, correct units must be given in the answer.
The table shows acceptable and unacceptable versions of the answer 1.85m.

	Correct answer	Also accept	Do not accept
Units are not given on answer line and question does not specify unit for the answer.	1.85m	Correct conversions provided that the unit is stated, e.g. 1m 85cm 185cm 1850mm 0.00185km	1.85 185m
If the unit is given on the answer line, e.g. ……………………………m	…..1.85…… m	Correct conversions, provided the unit is stated unambiguously, e.g. …..185cm….. m	…..185……m …..1850…. m etc.
If the question states the unit that the answer should be given in a specified unit, e.g. "Give your answer in metres"	1.85m	1.85 1m 85cm	185; 1850 Any conversions to other units, e.g. 185cm

Note: if the answer line is left blank but the correct answer is given elsewhere on the page, it can be marked correct if the units match those on the answer line or are unambiguously stated.

Money

For questions involving money, it is essential that appropriate units are given in the answer.

The table shows acceptable and unacceptable versions.

	Accept	Do not accept
If the amount is in dollars and cents, the answer should be given to two decimal places.	$0.30 $9 or $9.00	
If units are not given on answer line	Any unambiguous indication of the correct amount, e.g. 30 cents; 30 c $0.30; $0.30c; $0.30cents $0-30; $0=30; $0:30	30 or 0.30 without a unit Incorrect or ambiguous answers, e.g. $0.3; $30; $30cents; 0.30cents
If $ is shown on the answer line	$.......**0.30**....... $.......**0.30 cents….** Accept all unambiguous indications, as shown above	$.......**30**....... $.......**30 cents….** (this cannot be accepted because it is ambiguous, but if the dollar sign is deleted it becomes acceptable)
If cents is shown on the answer line	.......**30**.......cents ....**$0.30**.......cents	.......**0.30**.......cents ....**$30**.......cents

Duration

Accept any unambiguous method of showing duration and all reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs).

Accept	Do not accept
Any unambiguous indication using any reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs), e.g. 2 hours 30 minutes; 2h 30m; 02h 30m 5 min 24 sec; 00h 05m 24s	Incorrect or ambiguous formats, e.g. 2.30; 2.3; 2.30 hours; 2.30 min; 2h 3; 2.3h
Any correct conversion with appropriate units, e.g. 2.5 hours; 150 mins 324 seconds	2.5; 150 304
Also accept unambiguous digital stopwatch format, e.g. 02:30:00 00:05:24; 05:24s	Do not accept ambiguous indications, e.g. 02:30 5.24

Time

There are many ways to write times, in both numbers and words, and marks should be awarded for any unambiguous method. Accept time written in numbers or words unless there is a specific instruction in the question. Some examples are given in the table.

Accept	Do not accept
Any unambiguous indication of correct answer in numbers, words or a combination of the two, e.g. 07:30, 19:00	Incorrect or ambiguous formats, e.g.
0730; 07 30; 07.30; 07,30; 07-30; 7.30; 730 a.m.; 7.30am; 7.30 in the morning	07.3; 073; 07 3; 730; 73; 7.3; 7.3am; 7.30p.m
Half past seven (o'clock) in the morning Thirty minutes past seven am Also accept: O-seven-thirty	
1900; 19 00; 19_00 etc.	19; 190; 19 000; 19.00am; 7.00am
Nineteen hundred (hours) Seven o'clock in the afternoon/evening	
Accept correct conversion to 12-hour clock, e.g. 16:42 4:42 p.m.	4.42am; 0442; 4.42
Sixteen forty two Four-forty-two in the afternoon/evening Four forty two p.m. Forty two (minutes) past four p.m. Eighteen (minutes) to five in the evening	Forty two (minutes) past sixteen Eighteen (minutes) to seventeen
Also accept a combination of numbers and words, e.g. 18 minutes to 5 p.m. 42 minutes past 4 in the afternoon	

	Question	Mark	Answer	
1	3Nn1	1	2605	

	Question	Mark	Answer	
2	3Ss1	1		Both shapes must be ticked to earn the mark.

	Question	Mark	Answer	
3	3Nc4	1	45 35	Both answers must be correct to earn the mark.

	Question	Mark	Answer	
4a	3P7	1	11 (cents)	
b	3P7	1	9 (cents)	If part (a) is incorrect, allow 20 – answer from part (a) = correct answer.

	Question	Mark	Answer	
5	3Sm9	1	Accept any of the following: 5:50 05:50 5:50am 05:50am	Do not accept: 17:50 5:50pm 05:50pm

	Question	Mark	Answer	
6a	4D3	1	80	
b	4D3	1	Saturday	
c	4D3	1	$400	

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	Question	Mark	Answer	
7	3Nn6	1	Accept any of the following: 7 tens 70 tens 7×10 seventy	Do not accept: 10 or 'ten'

	Question	Mark	Answer	
8a	3Sp1	1	(3,2)	
b	3Sp1	1		1 mark for square (4,5) shaded or otherwise indicated

	Question	Mark	Answer	
9	3Nc7	1	Accept **either** $30 \div 5 = 6$ **or** $30 \div 6 = 5$	

	Question	Mark	Answer	
10	3Nm11	1	400	

	Question	Mark	Answer	
11a	4Sp10	1	D, B, A, C	All in correct order for 1 mark
b	4Sp6	1	degrees	1 mark. Also accept °

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	Question		Mark	Answer	
12		4D5	2	<table><tr><td></td><td>**prime**</td><td>**not prime**</td></tr><tr><td>**odd**</td><td>3, 5, **7**</td><td>1, **9**</td></tr><tr><td>**not odd**</td><td>2</td><td>4, 6, **8**</td></tr></table>	All 3 numbers correct earns 2 marks Any 2 numbers correct earns 1 mark. 1 or 0 numbers correct earns 0 marks.

	Question		Mark	Answer	
13		4Ss2	2		All 3 triangles ticked earns 2 marks. Any 2 triangles ticked earns 1 mark 1 or 0 triangle ticked earns 0 marks. Take one mark off any score for each incorrect triangle selected (minimum 0).

	Question		Mark	Answer	
14		4Nn15	2	$12	If incorrect, award 1 mark for evidence of **either** 1 book costs $2 **or** 12 books cost $24 **or** 2 books cost $4.

	Question		Mark	Answer	
15		5Ss2	1		Accept any indication.

	Question		Mark	Answer	
16		5Nn9	1	38 (81) 26 76 (45) (63)	All correct for 1 mark. Accept any indication

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	Question	Mark	Answer	
17	6Sm2	1	10 (millimetres) 1000 (millilitres)	Both sentences must be correct to earn the mark.

	Question	Mark	Answer	
18a	5P2	1		
b	5P2	1	21	
c	5P2	1	Accept equivalent answers to "double the pattern number plus one" 2p + 1	

	Question	Mark	Answer	
19	6Nn20	1	($)125	1 mark

	Question	Mark	Answer	
20	6Nc8	2	26 312	If final answer incorrect award 1 mark for evidence of a complete method with no more than one computational error.

	Question	Mark	Answer	
21	5Ss5	1	(triangle) C	

	Question	Mark	Answer	
22	6Nn19	1	60%	

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	Question		Mark	Answer	
23		6P6	2	200 (matches)	If answer is incorrect award 1 mark for evidence of a complete correct method. For example, 480 ÷ 12 x 5 **or** if answer is incorrect award 1 mark for 40.

	Question		Mark	Answer	
24		6P2	2		2 marks for all four correct 1 mark for two or three correct

The grid for question 24:

×		5	
			63
3		15	

	Question		Mark	Answer	
25		5Nc16	2		

Sum	Difference
625	
	265

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CAMBRIDGE INTERNATIONAL PRIMARY PROGRAMME
ACHIEVEMENT TEST – MATHEMATICS PAPER 1
NOVEMBER 2009   0842/01

0842/1/CW/S

Please read the instructions printed overleaf before completing this form.

Centre Number

Centre Name

Candidate Number	Candidate Name	1	2	3	4a	4b	5	6a	6b	6c	7	8a	8b	9	10	11a	11b	12	13	14	15	16	17	18a	18b	18c	19	20	21	22	23	24	25	Total Mark (max 39)

Question Number

Teacher completing this form (BLOCK CAPITALS)   Date

Name of moderator (BLOCK CAPITALS)   Date

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Mathematics

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0842/1/CW/S

A. INSTRUCTIONS FOR COMPLETING WORKING MARK SHEET

1. Complete the information at the head of the form.

2. List the candidates in an order which will allow ease of transfer of information to a computer-printed mark sheet (MS1) at a later stage (i.e. in candidate index number order, where this is known).

3. Enter each candidate's marks on this form as follows:

    a) In the question columns, enter the marks awarded.

    b) In the columns headed 'Total Mark', enter the total mark awarded.

4. Ensure that the addition of marks is independently checked.

5. Both the teacher completing this form and the internal moderator should check the form and complete the bottom portion.

B. PROCEDURES FOR EXTERNAL MODERATION

1. University of Cambridge International Examinations (CIE) sends a computer-printed mark sheet (MS1) to each centre showing the name and index number of each candidate. Transfer the total internally moderated mark for each candidate from this WORKING MARK SHEET to the computer-printed mark sheet (MS1).

2. Despatch the top copy of the computer-printed mark sheet (MS1) to CIE. The deadlines for receipt of this completed document are 15 June for the June examination and 16 November for the November examination.

3. Send samples of the candidates' work covering the full ability range, together with this form and the second copy of MS1, by 15 June for the June examination and 16 November for the November examination.

4. If there are 10 or fewer candidates entering the Achievement Test, send all the scripts for every candidate.

5. If there are more than 10 candidates, send the scripts that contributed to the final mark for the number of candidates as follows. The marks of the candidates' work selected should cover the whole mark range with marks spaced as evenly as possible from the top mark to the lowest mark.

number of candidates entered	number of candidates whose work is required
11-50	10
51-100	15
above 100	20

6. If different teachers have prepared classes, select the samples from the classes of different teachers.

7. CIE reserves the right to ask for further samples of scripts.

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

MATHEMATICS   **0842/02**

Paper 2   **October/November 2009**

MARK SCHEME

Maximum Mark : 39

IMPORTANT NOTICE

Mark Schemes have been issued on the basis of **one** copy per Assistant examiner and **two** copies per Team Leader.

This document consists of **14** printed pages and **2** blank pages.

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Mathematics mark schemes – Achievement Test

Guidelines for marking test papers

These mark schemes are designed to provide you with all the information necessary to mark the Primary Mathematics Achievement Tests. As far as possible, the mark schemes give you full guidance regarding acceptable and unacceptable alternative answers and, where appropriate, include examples of student work to illustrate the marking points. However, it is not always possible to predict all the alternative answers that may be produced by students and there could be places where the marker will have to use their professional judgement. In these cases it is essential that such judgement be applied consistently.

The guidelines below should be followed throughout (**unless the mark scheme states otherwise**):

- A correct answer should always be awarded full marks even if the working shown is wrong.
- Where more than one mark is available for a question the mark scheme explains where each mark should be awarded. In some cases marks are available for demonstration of the correct method even if the final answer is incorrect. The method marks can be awarded if the correct method is used but a mistake has been made in the calculation, resulting in a wrong answer. Method marks can also be awarded if the calculation is set up and performed correctly but incorrect values have been used, e.g. due to misreading the question or a mistake earlier in a series of calculations.
- If a question uses the answer to a previous question or part question that the student answered incorrectly, all available marks can be awarded for the latter question if appropriate calculations are performed correctly using the value carried forward. Places where such consideration should be made are indicated in the mark schemes. In these cases, it is not possible to provide all the alternative acceptable answers and the marker must follow the student's working to determine whether credit should be given or not.
- Half marks should not be awarded and at no point should an answer be awarded more than the maximum number of marks available, regardless of the quality of the answer.
- If the student has given more than one answer, the marks can be awarded if all the answers given are correct. However, if correct and incorrect answers are given together, marks should not be awarded (marks for correct working out can still be gained).
- If the answer line is blank but the correct answer is given elsewhere, e.g. an annotation on a graph or at the end of the working out, the marks can be awarded provided it is clear that the student has understood the requirements of the question.
- If the response on the answer line is incorrect but the correct answer is shown elsewhere, full marks can still be awarded if the student has made the error when copying the answer onto the answer line. If the incorrect final answer is the result of redundant additional working after the correct answer had been reached, the marks can be awarded provided the extra work does not contradict that already done.

- Each question and part question should be considered independently and marks for one question should not be disallowed if they are contradicted by working or answers in another question or part question.

- Any legible crossed-out work that has not been replaced can be marked; but, if work has been replaced, the crossed-out part should be ignored.

- If the student's response is numerically or algebraically equivalent to the answer in the mark scheme, the mark should be given unless a particular form of answer was specified by the question.

- Diagrams, symbols or words are acceptable for explanations or responses.

- Where students are required to indicate the correct answer in a specific way, e.g. by underlining, marks should be awarded for any unambiguous indication, e.g. circling or ticking.

- Any method of setting out working should be accepted.

- Standard rules for acceptable formats of answers involving units, money, duration and time are given overleaf.

Each question on the test paper has a box beside it for the teacher to record the mark obtained. It is advisable to use these boxes so that students, and others looking at the test papers, can clearly see where the marks have been awarded.

It should also be noted that marking in red ink and using the mark boxes is an essential requirement for the Achievement tests.

A working marksheet, together with instructions for its completion, is included in this mark scheme. A completed copy should be despatched with the moderation sample.

General rules for alternative answers

In most places on the mark schemes acceptable and unacceptable alternative answers are given in detail, however some general rules are given overleaf and are not necessarily repeated in full for each question that they apply.

Number and Place value
The table shows various general rules in terms of acceptable decimal answers.

Accept
Accept omission of leading zero if answer is clearly shown, e.g. **.675**
Accept tailing zeros, unless the question has asked for a specific number of decimal places, e.g. **0.7000**
Always accept appropriate tailing zeros, e.g. **3.00m; 5.000kg**
Accept a comma as a decimal point if that is that convention that you have taught the student, e.g. **0,638**

Units

For questions involving quantities, e.g. length, mass, time or money, correct units must be given in the answer. The table shows acceptable and unacceptable versions of the answer 1.85m.

	Correct answer	**Also accept**	**Do not accept**
Units are not given on answer line and question does not specify unit for the answer.	1.85m	Correct conversions provided that the unit is stated, e.g. 1m 85cm 185cm 1850mm 0.00185km	1.85 185m
If the unit is given on the answer line, e.g. ....m	.....1.85...... m	Correct conversions, provided the unit is stated unambiguously, e.g. .....185cm..... m	.....185......m .....1850.... m etc.
If the question states the unit that the answer should be given in a specified unit, e.g. "Give your answer in metres"	1.85m	1.85 1m 85cm	185; 1850 Any conversions to other units, e.g. 185cm

Note: if the answer line is left blank but the correct answer is given elsewhere on the page, it can be marked correct if the units match those on the answer line or are unambiguously stated.

Money

For questions involving money, it is essential that appropriate units are given in the answer.

The table shows acceptable and unacceptable versions.

	Accept	Do not accept
If the amount is in dollars and cents, the answer should be given to two decimal places.	$0.30 $9 or $9.00	
If units are not given on answer line	Any unambiguous indication of the correct amount, e.g. 30 cents; 30 c $0.30; $0.30c; $0.30cents $0-30; $0=30; $0:30	30 or 0.30 without a unit Incorrect or ambiguous answers, e.g. $0.3; $30; $30cents; 0.30cents
If $ is shown on the answer line	$.......**0.30**……. $.......**0.30 cents**…. Accept all unambiguous indications, as shown above	$.......**30**……. $.......**30 cents**…. (this cannot be accepted because it is ambiguous, but if the dollar sign is deleted it becomes acceptable)
If cents is shown on the answer line	.......**30**…….cents ....**$0.30**…….cents	.......**0.30**…….cents ....**$30**…….cents

Duration

Accept any unambiguous method of showing duration and all reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs).

Accept	Do not accept
Any unambiguous indication using any reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs), e.g. 2 hours 30 minutes; 2h 30m; 02h 30m 5 min 24 sec; 00h 05m 24s	Incorrect or ambiguous formats, e.g. 2.30; 2.3; 2.30 hours; 2.30 min; 2h 3; 2.3h
Any correct conversion with appropriate units, e.g. 2.5 hours; 150 mins 324 seconds	2.5; 150 304
Also accept unambiguous digital stopwatch format, e.g. 02:30:00 00:05:24; 05:24s	Do not accept ambiguous indications, e.g. 02:30 5.24

Time

There are many ways to write times, in both numbers and words, and marks should be awarded for any unambiguous method. Accept time written in numbers or words unless there is a specific instruction in the question. Some examples are given in the table.

Accept	Do not accept
Any unambiguous indication of correct answer in numbers, words or a combination of the two, e.g. 07:30, 19:00	Incorrect or ambiguous formats, e.g.
0730; 07 30; 07.30; 07,30; 07-30; 7.30; 730 a.m.; 7.30am; 7.30 in the morning	07.3; 073; 07 3; 730; 73; 7.3; 7.3am; 7.30p.m
Half past seven (o'clock) in the morning Thirty minutes past seven am Also accept: O-seven-thirty	
1900; 19 00; 19_00 etc.	19; 190; 19 000; 19.00am; 7.00am
Nineteen hundred (hours) Seven o'clock in the afternoon/evening	
Accept correct conversion to 12-hour clock, e.g. 16:42 4:42 p.m.	4.42am; 0442; 4.42
Sixteen forty two Four-forty-two in the afternoon/evening Four forty two p.m. Forty two (minutes) past four p.m. Eighteen (minutes) to five in the evening	Forty two (minutes) past sixteen Eighteen (minutes) to seventeen
Also accept a combination of numbers and words, e.g. 18 minutes to 5 p.m. 42 minutes past 4 in the afternoon	

	Question	Mark	Answer	
1	3Nn9	1	3 8 38 83	

	Question	Mark	Answer	
2	3Nn13	1	$\dfrac{3}{4}$	or equivalent Also accept 0.75

	Question	Mark	Answer	
3	3Nn3	1	317	

	Question	Mark	Answer	
4a	3Ss1	1	Pentagon	Also accept regular pentagon
b	3Ss3	1	 Any one clearly drawn accurate line.	Allow mark if no ruler is used, provided intention is clear. Allow mark if more than one correct line is drawn.

	Question	Mark	Answer	
5	4Nn8	1	-4 (ºC)	

	Question	Mark	Answer	
6	3P1	1	9	

	Question	Mark	Answer	
7	4Sp9	1	45 (°)	

	Question	Mark	Answer	
8	3Sm6	1	minutes	Accept any indication of minutes for 1 mark. Also accept seconds.

	Question	Mark	Answer	
9	3Ss3	1		Both lines must be ticked to earn the mark.

	Question	Mark	Answer	
10	3Nc8	1	3 (sweets)	

	Question	Mark	Answer	
11	3Nc12	1		All 3 lines must be correct to get the mark.

Question		Mark	Answer	
12	5Sp2	1		Accept any indication of these two lines for 1 mark.

Question		Mark	Answer	
13a	4D5	1	14	
b	4D5	1	5	

Question		Mark	Answer	
14	3Sm8	1	Accept any of the following: 24(th) April April 24(th) 24/4 4/24	

Question		Mark	Answer	
15a	5P2	1	Double (each number) or multiply by 2	Accept explanation in symbols for example x2
b	5P2	1	256	

Question		Mark	Answer	
16	5Nn1	1	Seven hundred and one thousand eight hundred and fifty.	Accept any reasonable spelling

	Question	Mark	Answer	
17a	6D4	1	3	
b	6D4	1	5	
c	6D5	1	3.5	

	Question	Mark	Answer	
18	5P6	4	14	Award full marks for correct answer. If final answer incorrect, award marks as follows: Award 3 marks for evidence of 16, including 30 – 16 seen. Award 2 marks for evidence of **both** 6 and 10 Award 1 mark for evidence of **either** 6 **or** 10 Award 1 mark for evidence of 6 + 10 = correct answer, where **one** of 6 or 10 is incorrect.

	Question	Mark	Answer	
19	5Nc3	1	1000 1500 2500	All three correct for 1 mark

	Question	Mark	Answer	
20	6Ss4	1		

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	Question	Mark	Answer	
21	5Nc6	1	30	

	Question	Mark	Answer	
22	6Sp3	1	Angle should measure 74-76º inclusive.	Accept correct angle drawn elsewhere.

	Question	Mark	Answer	
23	6Nn9	2	$2 \times 2 \times 3 \times 5$ or $2^2 \times 3 \times 5$	Also accept 2,2,3,5 or 2^2,3,5 Numbers may be multiplied or listed in any order. Award 1 mark for any 3 correct prime factors given.

	Question	Mark	Answer	
24	6P4	1	**b** = 4**a** + 3 Also accept: 3 + 4**a** 4 × **a** + 3 3 + 4 × **a** **a** × 4 + 3 3 + **a** × 4	Although not normal convention accept **a**4 + 3 or 3 + **a**4 Any correct use of brackets acceptable.

	Question	Mark	Answer	
25	6Nc10	2	$7 - 3 \times 12 = 48$ $21 + 4 - 7 \div 6 = 3$	Award 1 mark for each correct inverse calculation. Accept correct use of brackets.

	Question	Mark	Answer	
26	6Sm6	3	Perimeter **74** (cm) Area **138** (cm^2)	For the area if final answer is incorrect award 1 mark for evidence of a correct complete method. For example (9×6) + (9×6) + (10×3) **or** (6×6) + (6×6) + (22×3)

	Question	Mark	Answer	
27	6P1	1	$\boxed{2}\ \boxed{1}\ \times\ \boxed{5}\ \boxed{0}\ \boxed{0}\ =\ 10\,500$	All digits correct for 1 mark.

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CAMBRIDGE INTERNATIONAL PRIMARY PROGRAMME
ACHIEVEMENT TEST – MATHEMATICS PAPER 2
NOVEMBER 2009   0842/02

Please read the instructions printed overleaf before completing this form.

Centre Number

Centre Name

Candidate Number	Candidate Name	Question Number																															Total Mark
		1	2	3	4a	4b	5	6	7	8	9	10	11	12	13a	13b	14	15a	15b	16	17a	17b	17c	18	19	20	21	22	23	24	25	26	27	max 39

Teacher completing this form (BLOCK CAPITALS)   Date

Name of moderator (BLOCK CAPITALS)   Date

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Mathematics

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A. **INSTRUCTIONS FOR COMPLETING WORKING MARK SHEET**

1. Complete the information at the head of the form.

2. List the candidates in an order which will allow ease of transfer of information to a computer-printed mark sheet (MS1) at a later stage (i.e. in candidate index number order, where this is known).

3. Enter each candidate's marks on this form as follows:

   a) In the question columns, enter the marks awarded.

   b) In the columns headed 'Total Mark', enter the total mark awarded.

4. Ensure that the addition of marks is independently checked.

5. Both the teacher completing this form and the internal moderator should check the form and complete the bottom portion.

B. **PROCEDURES FOR EXTERNAL MODERATION**

1. University of Cambridge International Examinations (CIE) sends a computer-printed mark sheet (MS1) to each centre showing the name and index number of each candidate. Transfer the total internally moderated mark for each candidate from this WORKING MARK SHEET to the computer-printed mark sheet (MS1).

2. Despatch the top copy of the computer-printed mark sheet (MS1) to CIE. The deadlines for receipt of this completed document are 15 June for the June examination and 16 November for the November examination.

3. Send samples of the candidates' work covering the full ability range, together with this form and the second copy of MS1, by 15 June for the June examination and 16 November for the November examination.

4. If there are 10 or fewer candidates entering the Achievement Test, send all the scripts for every candidate.

5. If there are more than 10 candidates, send the scripts that contributed to the final mark for the number of candidates as follows. The marks of the candidates' work selected should cover the whole mark range with marks spaced as evenly as possible from the top mark to the lowest mark.

number of candidates entered	number of candidates whose work is required
11–50	10
51–100	15
above 100	20

6. If different teachers have prepared classes, select the samples from the classes of different teachers.

7. CIE reserves the right to ask for further samples of scripts.

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Cambridge International Primary Achievement Test

MATHEMATICS   **0842/01**

Paper 1   **May/June 2008**

MARK SCHEME

Maximum Mark : 39

IMPORTANT NOTICE

Mark Schemes have been issued on the basis of **one** copy per Assistant examiner and **two** copies per Team Leader.

This document consists of **12** printed pages.

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[Turn over

2

Mathematics mark schemes – Achievement Test

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- Each question and part question should be considered independently and marks for one question should not be disallowed if they are contradicted by working or answers in another question or part question.

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- If the child's response is numerically or algebraically equivalent to the answer in the mark scheme, the mark should be given unless a particular form of answer was specified by the question.

- Diagrams, symbols or words are acceptable for explanations or responses.

- Where students are required to indicate the correct answer in a specific way, e.g. by underlining, marks should be awarded for any unambiguous indication, e.g. circling or ticking.

- Any method of setting out working should be accepted.

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Each question on the test paper has a box beside it for the teacher to record the mark obtained. It is advisable to use these boxes so that students, and others looking at the test papers, can clearly see where the marks have been awarded.

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General rules for alternative answers

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Number and Place value

The table shows various general rules in terms of acceptable decimal answers.

Accept
Accept omission of leading zero if answer is clearly shown, e.g. **.675**
Accept tailing zeros, unless the question has asked for a specific number of decimal places, e.g. **0.7000**
Always accept appropriate tailing zeros, e.g. **3.00m; 5.000kg**
Accept a comma as a decimal point if that is that convention that you have taught the children, e.g. **0,638**

Units

For questions involving quantities, e.g. length, mass, time or money, correct units must be given in the answer. The table shows acceptable and unacceptable versions of the answer 1.85m.

	Correct answer	Also accept	Do not accept
Units are not given on answer line and question does not specify unit for the answer.	1.85m	Correct conversions provided that the unit is stated, e.g. 1m 85cm 185cm 1850mm 0.00185km	1.85 185m
If the unit is given on the answer line, e.g. ……………………………m	…..1.85…… m	Correct conversions, provided the unit is stated unambiguously, e.g. …..185cm….. m	…..185……m …..1850…. m etc.
If the question states the unit that the answer should be given in a specified unit, e.g. "Give your answer in metres"	1.85m	1.85 1m 85cm	185; 1850 Any conversions to other units, e.g. 185cm

Note: if the answer line is left blank but the correct answer is given elsewhere on the page, it can be marked correct if the units match those on the answer line or are unambiguously stated.

Money

For questions involving money, it is essential that appropriate units are given in the answer.

The table shows acceptable and unacceptable versions.

	Accept	Do not accept
If the amount is in dollars and cents, the answer should be given to two decimal places.	$0.30 $9 or $9.00	
If units are not given on answer line	Any unambiguous indication of the correct amount, e.g. 30 cents; 30 c $0.30; $0.30c; $0.30cents $0-30; $0=30; $0:30	30 or 0.30 without a unit Incorrect or ambiguous answers, e.g. $0.3; $30; $30cents; 0.30cents
If $ is shown on the answer line	$.......**0.30**....... $.......**0.30 cents….** Accept all unambiguous indications, as shown above	$.......**30**....... $.......**30 cents….** (this cannot be accepted because it is ambiguous, but if the dollar sign is deleted it becomes acceptable)
If cents is shown on the answer line	.......**30**.......cents ....**$0.30**.......cents	.......**0.30**.......cents ....**$30**.......cents

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Mathematics

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Duration

Accept any unambiguous method of showing duration and all reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs).

Accept	Do not accept
Any unambiguous indication using any reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs), e.g. 2 hours 30 minutes; 2h 30m; 02h 30m 5 min 24 sec; 00h 05m 24s	Incorrect or ambiguous formats, e.g. 2.30; 2.3; 2.30 hours; 2.30 min; 2h 3; 2.3h
Any correct conversion with appropriate units, e.g. 2.5 hours; 150 mins 324 seconds	 2.5; 150 304
Also accept unambiguous digital stopwatch format, e.g. 02:30:00 00:05:24; 05:24s	Do not accept ambiguous indications, e.g. 02:30 5.24

Time

There are many ways to write times, in both numbers and words, and marks should be awarded for any unambiguous method. Accept time written in numbers or words unless there is a specific instruction in the question. Some examples are given in the table.

Accept	Do not accept
Any unambiguous indication of correct answer in numbers, words or a combination of the two, e.g. 07:30, 19:00	Incorrect or ambiguous formats, e.g.
0730; 07 30; 07.30; 07,30; 07-30; 7.30; 730 a.m.; 7.30am; 7.30 in the morning	07.3; 073; 07 3; 730; 73; 7.3; 7.3am; 7.30p.m
Half past seven (o'clock) in the morning Thirty minutes past seven am Also accept: O-seven-thirty	
1900; 19 00; 19_00 etc.	19; 190; 19 000; 19.00am; 7.00am
Nineteen hundred (hours) Seven o'clock in the afternoon/evening	
Accept correct conversion to 12-hour clock, e.g. 16:42 4:42 p.m.	4.42am; 0442; 4.42
Sixteen forty two Four-forty-two in the afternoon/evening Four forty two p.m. Forty two (minutes) past four p.m. Eighteen (minutes) to five in the evening	Forty two (minutes) past sixteen Eighteen (minutes) to seventeen
Also accept a combination of numbers and words, e.g. 18 minutes to 5 p.m. 42 minutes past 4 in the afternoon	

	Question	Mark	Answer	Additional information
1	2Nn5	2		All 7 circles correct – 2 marks – with no wrong. 6 circles correct – 1 mark – with one wrong.

	Question	Mark	Answer	Additional information
2	3Nn13	1		

	Question	Mark	Answer	Additional information
3	3Nc9	2	10	2 marks for correct answer 1 mark can be awarded if evidence of: $43 \div 4 = 10$ rem.3 **or** $43 \div 4 = 10.75$

	Question	Mark	Answer	Additional information
4	3P4	1	I think Monty is **wrong** because	The explanation should include the statement that: $1.00-72c=28c (not 18c) **or** 72c+18c=90c **or** 72c+28c=100c ($1) **or** $1.00-28c=72c The mark is given for the word "wrong" **and** the explanation.

	Question		Mark	Answer	Additional information
5	**a**	3P2	1	10	
	b	3P2	1	6	

	Question	Mark	Answer	Additional information
6	3D1	1	16	

	Question	Mark	Answer	Additional information
7	3Ss3	1		Both correct for answer. No other ticks

	Question	Mark	Answer	Additional information
8	3Sp2	1	West	

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	Question	Mark	Answer	Additional information
9	3Sm7	1	2 ½ 2.5 $2\frac{30}{60}$	Accept "two and a half", also 2 (two) minutes 30 (thirty) seconds.

	Question	Mark	Answer	Additional information
10	4Nn9	1	17 11 5 -1 -7 -13	Both correct for mark.

		Question	Mark	Answer	Additional information
11	**a**	4Nn13	1	2/6	Also accept 1/3
	b	4Nn13	1	1 3/4	Also accept 1 6/8

		Question	Mark	Answer	Additional information
12	**a**	4Nc9	1	56	
	b	4Nc13	1	2400	

	Question	Mark	Answer	Additional information
13	4Nc7	1	12	

		Question	Mark	Answer	Additional information
14	**a**	4P1	1	36	
	b	4P1	1	224	

		Question	Mark	Answer	Additional information
15	**a**	4P5	1	$34.95	
	b	4P5	1	$19.50	Accept $19.5

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	Question			Mark	Answer	Additional information
16	**a**	4D1		1	25	
	b	4D1		1	50	

	Question		Mark	Answer	Additional information
17		4Ss5	1		The shape must be accurate enough to show the student understands this reflection.

	Question		Mark	Answer	Additional information
18	**a**	4Sp9	1	45	
	b	4Sp10	1	a c d b	

	Question		Mark	Answer	Additional information
19	**a**	4Sm9	1	58 minutes	
	b	4Sm9	1	6 minutes	Accept if 19a-52=19b

	Question		Mark	Answer	Additional information
20	**a**	5Nn16	1	62	
	b	5Nn16	1	37	

	Question		Mark	Answer	Additional information
21	**a**	5Nc3	1	9320	
	b	5Nc3	1	12194	(also give 1 mark if (a) is wrong but (b) = a + 2874)

Question			Mark	Answer	Additional information
22		5P4	1	"Five lots of b are equal to a"	Also accept equivalent implying that **a** is equal to five times **b**; or **a** is five times bigger than **b**; or five times **b** makes **a**; also accept answers including an example **in addition to** the explanation, e.g. If **a** equals 10, **b** equals 2, because 5 times 2 = 10.

Question			Mark	Answer	Additional information
23	**a**	6D5	1	47.6	
	b	6D5	1	47	

Question		Mark	Answer	Additional information
24	5Ss5	1		Drawing must be accurate enough to show that the student understands this translation.

Question		Mark	Answer	Additional information
25	6Sp5	1	32	

Question		Mark	Answer	Additional information
26	6Sm2	1	345	

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

MATHEMATICS   **0842/02**

Paper 2   **May/June 2008**

MARK SCHEME

Maximum Mark : 39

IMPORTANT NOTICE

This document consists of **14** printed pages and **2** blank pages.

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Mathematics mark schemes – Achievement Test

Guidelines for marking test papers

These mark schemes are designed to provide you with all the information necessary to mark the Primary Mathematics Achievement Tests. As far as possible, the mark schemes give you full guidance regarding acceptable and unacceptable alternative answers and, where appropriate, include examples of student work to illustrate the marking points. However, it is not always possible to predict all the alternative answers that may be produced by students and there could be places where the marker will have to use their professional judgement. In these cases it is essential that such judgement be applied consistently.

The guidelines below should be followed throughout (**unless the mark scheme states otherwise**):

- A correct answer should always be awarded full marks even if the working shown is wrong.
- Where more than one mark is available for a question the mark scheme explains where each mark should be awarded. In some cases marks are available for demonstration of the correct method even if the final answer is incorrect. The method marks can be awarded if the correct method is used but a mistake has been made in the calculation, resulting in a wrong answer. Method marks can also be awarded if the calculation is set up and performed correctly but incorrect values have been used, e.g. due to misreading the question or a mistake earlier in a series of calculations.
- If a question uses the answer to a previous question or part question that the child answered incorrectly, all available marks can be awarded for the latter question if appropriate calculations are performed correctly using the value carried forward. Places where such consideration should be made are indicated in the mark schemes. In these cases, it is not possible to provide all the alternative acceptable answers and the marker must follow the child's working to determine whether credit should be given or not.
- Half marks should not be awarded and at no point should an answer be awarded more than the maximum number of marks available, regardless of the quality of the answer.
- If the child has given more than one answer, the marks can be awarded if all the answers given are correct. However, if correct and incorrect answers are given together, marks should not be awarded (marks for correct working out can still be gained).
- If the answer line is blank but the correct answer is given elsewhere, e.g. an annotation on a graph or at the end of the working out, the marks can be awarded provided it is clear that the child has understood the requirements of the question.
- If the response on the answer line is incorrect but the correct answer is shown elsewhere, full marks can still be awarded if the child has made the error when copying the answer onto the answer line. If the incorrect final answer is the result of redundant additional working after the correct answer had been reached, the marks can be awarded provided the extra work does not contradict that already done.

- Each question and part question should be considered independently and marks for one question should not be disallowed if they are contradicted by working or answers in another question or part question.

- Any legible crossed-out work that has not been replaced can be marked; but, if work has been replaced, the crossed-out part should be ignored.

- If the child's response is numerically or algebraically equivalent to the answer in the mark scheme, the mark should be given unless a particular form of answer was specified by the question.

- Diagrams, symbols or words are acceptable for explanations or responses.

- Where students are required to indicate the correct answer in a specific way, e.g. by underlining, marks should be awarded for any unambiguous indication, e.g. circling or ticking.

- Any method of setting out working should be accepted.

- Standard rules for acceptable formats of answers involving units, money, duration and time are given overleaf.

Each question on the test paper has a box beside it for the teacher to record the mark obtained. It is advisable to use these boxes so that students, and others looking at the test papers, can clearly see where the marks have been awarded.

It should also be noted that marking in red ink and using the mark boxes is an essential requirement for the Achievement tests.

General rules for alternative answers

In most places on the mark schemes acceptable and unacceptable alternative answers are given in detail, however some general rules are given overleaf and are not necessarily repeated in full for each question that they apply.

Number and Place value

The table shows various general rules in terms of acceptable decimal answers.

Accept
Accept omission of leading zero if answer is clearly shown, e.g.   **.675**
Accept tailing zeros, unless the question has asked for a specific number of decimal places, e.g.   **0.7000**
Always accept appropriate tailing zeros, e.g.   **3.00m; 5.000kg**
Accept a comma as a decimal point if that is that convention that you have taught the children, e.g.   **0,638**

Units

For questions involving quantities, e.g. length, mass, time or money, correct units must be given in the answer. The table shows acceptable and unacceptable versions of the answer 1.85m.

	Correct answer	Also accept	Do not accept
Units are not given on answer line and question does not specify unit for the answer.	1.85m	Correct conversions provided that the unit is stated, e.g. 1m 85cm 185cm 1850mm 0.00185km	1.85 185m
If the unit is given on the answer line, e.g. ……………………………m	…..1.85…… m	Correct conversions, provided the unit is stated unambiguously, e.g. …..185cm….. m	…..185……m …..1850…. m etc.
If the question states the unit that the answer should be given in a specified unit, e.g. "Give your answer in metres"	1.85m	1.85 1m 85cm	185; 1850 Any conversions to other units, e.g. 185cm

Note: if the answer line is left blank but the correct answer is given elsewhere on the page, it can be marked correct if the units match those on the answer line or are unambiguously stated.

Money

For questions involving money, it is essential that appropriate units are given in the answer.

The table shows acceptable and unacceptable versions.

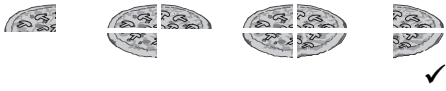|	**Accept**	**Do not accept**
If the amount is in dollars and cents, the answer should be given to two decimal places.	$0.30 $9 or $9.00	
If units are not given on answer line	Any unambiguous indication of the correct amount, e.g. 30 cents; 30 c $0.30; $0.30c; $0.30cents $0-30; $0=30; $0:30	30 or 0.30 without a unit Incorrect or ambiguous answers, e.g. $0.3; $30; $30cents; 0.30cents
If $ is shown on the answer line	$.......**0.30**....... $.......**0.30 cents….** Accept all unambiguous indications, as shown above	$.......**30**....... $.......**30 cents….** (this cannot be accepted because it is ambiguous, but if the dollar sign is deleted it becomes acceptable)
If cents is shown on the answer line	.......**30**.......cents ....**$0.30**.......cents	.......**0.30**.......cents ....**$30**.......cents

Duration

Accept any unambiguous method of showing duration and all reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs).

Accept	Do not accept
Any unambiguous indication using any reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs), e.g. 2 hours 30 minutes; 2h 30m; 02h 30m 5 min 24 sec; 00h 05m 24s	Incorrect or ambiguous formats, e.g. 2.30; 2.3; 2.30 hours; 2.30 min; 2h 3; 2.3h
Any correct conversion with appropriate units, e.g. 2.5 hours; 150 mins 324 seconds	2.5; 150 304
Also accept unambiguous digital stopwatch format, e.g. 02:30:00 00:05:24; 05:24s	Do not accept ambiguous indications, e.g. 02:30 5.24

Time

There are many ways to write times, in both numbers and words, and marks should be awarded for any unambiguous method. Accept time written in numbers or words unless there is a specific instruction in the question. Some examples are given in the table.

Accept	Do not accept
Any unambiguous indication of correct answer in numbers, words or a combination of the two, e.g. 07:30, 19:00	Incorrect or ambiguous formats, e.g.
0730; 07 30; 07.30; 07,30; 07-30; 7.30; 730 a.m.; 7.30am; 7.30 in the morning	07.3; 073; 07 3; 730; 73; 7.3; 7.3am; 7.30p.m
Half past seven (o'clock) in the morning Thirty minutes past seven am Also accept: O-seven-thirty	
1900; 19 00; 19_00 etc.	19; 190; 19 000; 19.00am; 7.00am
Nineteen hundred (hours) Seven o'clock in the afternoon/evening	
Accept correct conversion to 12-hour clock, e.g. 16:42 4:42 p.m.	4.42am; 0442; 4.42
Sixteen forty two Four-forty-two in the afternoon/evening Four forty two p.m. Forty two (minutes) past four p.m. Eighteen (minutes) to five in the evening	Forty two (minutes) past sixteen Eighteen (minutes) to seventeen
Also accept a combination of numbers and words, e.g. 18 minutes to 5 p.m. 42 minutes past 4 in the afternoon	

	Question	Mark	Answer	Additional information
1	4Nn14	1	✓	

	Question	Mark	Answer	Additional information
2	3Nn13	2		All four lines correct - award 2 marks Two or three lines correct -1 mark

	Question	Mark	Answer	Additional information
3	2Nc15	1	12	

	Question		Mark	Answer	Additional information
4	**a**	3P8	1	47 cents (accept $0.47)	Do not award marks if correct currency is not indicated.
	b	3P8	1	$1.53 (accept 1 dollar 53 cents.)	Accept if: 4(b) = $2.00 – 4(a)

	Question		Mark	Answer	Additional information
5	**a**	3D1	1	20	
	b	3D1	1	6	

	Question	Mark	Answer	Additional information
6	3Ss1	1		All four must be correct. No errors.

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	Question		Mark	Answer	Additional information
7		2Sp4	1	A:B East then South (accept E, S) B:C West then South (accept W, S)	1 mark for both answers correct.

	Question		Mark	Answer	Additional information
8		2Sm6	1	February, April, July, September, November	Accept answers with incorrect spelling, as long as the correct months are clearly intended.

	Question		Mark	Answer	Additional information
9		4Nn17	1		All three matches correct = 1 mark

	Question		Mark	Answer	Additional information
10	**a**	4Nn9	1	-3	
	b	4Nn9	1	-4	

	Question		Mark	Answer	Additional information
11	**a**	5Nc4	1	1.24	
	b	5Nc4	1	0.65	

	Question		Mark	Answer	Additional information
12	**a**	5Nc11	1	Working should show **either** 2710 + 5890 = 8600, **or** 2700 + 5900 = 8600. The mark should only be given if **both** the rounded numbers **and** the answer are given	
	b	5Nc11	1	8599	

	Question		Mark	Answer	Additional information
13		5P6	2	237.60	One mark for the correct answer. The second mark is for a correct method of working out, for example evidence of: 12 x 22 = 264 264 x 0.9 = 237.6 **or** 22 – 2.2 =19.8 19.8 x 12 = 237.6 **or** 22 x 0.9 =19.8 19.8 x 12 = 237.6 **or** 12 x 22 = 264 264 – 26.4 = 237.6

	Question		Mark	Answer	Additional information
14	**a**	5P2	1	19	
	b	5P2	1	3	

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Question			Mark	Answer	Additional information
15	**a**	5D4	1	4	
	b	5D3	1	A bar shows a value of 2 in the 5 peppers column	The bar doesn't have to be identical to the other bars as long as it clearly represents the correct answer.

Question		Mark	Answer	Additional information
16	5Ss4	1		The shape must be accurate enough to show that the student understands the symmetry.

Question			Mark	Answer	Additional information
17	**a**	4Ss1	1	Cuboid	Accept square or rectangular prism.
	b	4Ss1	1	The description must mention that it has 6 equal sides. This is the only essential element of the description.	Or 6 equal angles

	Question		Mark	Answer	Additional information
18		4Sp10	1		

	Question		Mark	Answer	Additional information
19	**a**	4Sm7	1	6:07	Accept 18:07
	b	4Sm7	1		Accept hands drawn showing 8:22 or 8:24

	Question	Mark	Answer	Additional information
20	5Nn17	1	450	

	Question	Mark	Answer	Additional information
21	5Nc6	1	128.5	

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Question		Mark	Answer	Additional information
22	5P5	2	William was wrong.	The explanation should identify that there are 200 sevens in 1400, not 20. $$\begin{array}{r} 228 \text{ r1} \\ \hline 7\,)\overline{1597} \\ 1400 \\ \hline 197 \\ 140 \\ \hline 57 \\ 56 \\ \hline 1 \end{array}$$ error 200 not 20 20 8 Thus the answer is 228 r1. Give one mark if the correct answer is given but no explanation of the error.

Question		Mark	Answer	Additional information
23	6P4	1	P = 2s + 3t	Accept: P = 3t + 2s or P = s + s + t + t + t or equivalent

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	Question	Mark	Answer	Additional information
24	6D1	1	Even chance. or 50:50 or Equal chance or 50% chance or ½ (half)	

	Question	Mark	Answer	Additional information
25	5Ss5	1		The shape must be drawn accurately enough to show that the student understands the translation.

	Question	Mark	Answer	Additional information
26	5Sp2	1	a, e	

	Question	Mark	Answer	Additional information
27	5Sm7	1	223.2 cm^2	The correct unit cm^2 must be used for the mark to be rewarded.

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

MATHEMATICS **0842/01**

Paper 1 **October/November 2008**

MARK SCHEME

Maximum Mark : 39

IMPORTANT NOTICE

Mark Schemes have been issued on the basis of **one** copy per Assistant examiner and **two** copies per Team Leader.

This document consists of **11** printed pages and **1** blank page.

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International Examinations

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Accept tailing zeros, unless the question has asked for a specific number of decimal places, e.g. **0.7000**
Always accept appropriate tailing zeros, e.g. **3.00m; 5.000kg**
Accept a comma as a decimal point if that is that convention that you have taught the students, e.g. **0,638**

Units

For questions involving quantities, e.g. length, mass, time or money, correct units must be given in the answer. The table shows acceptable and unacceptable versions of the answer 1.85m.

	Correct answer	Also accept	Do not accept
Units are not given on answer line and question does not specify unit for the answer.	1.85m	Correct conversions provided that the unit is stated, e.g. 1m 85cm 185cm 1850mm 0.00185km	1.85 185m
If the unit is given on the answer line, e.g. ………………………….m	…..1.85…… m	Correct conversions, provided the unit is stated unambiguously, e.g. …..185cm….. m	…..185……m …..1850…. m etc.
If the question states that the answer should be given in a specified unit, e.g. "Give your answer in metres"	1.85m	1.85 1m 85cm	185; 1850 Any conversions to other units, e.g. 185cm

Note: if the answer line is left blank but the correct answer is given elsewhere on the page, it can be marked correct if the units match those on the answer line or are unambiguously stated.

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Money

For questions involving money, it is essential that appropriate units are given in the answer.

The table shows acceptable and unacceptable versions.

	Accept	Do not accept
If the amount is in dollars and cents, the answer should be given to two decimal places.	$0.30 $9 or $9.00	
If units are not given on the answer line	Any unambiguous indication of the correct amount, e.g. 30 cents; 30 c $0.30; $0.30c; $0.30cents $0-30; $0=30; $0:30	30 or 0.30 without a unit Incorrect or ambiguous answers, e.g. $0.3; $30; $30cents; 0.30cents
If $ is shown on the answer line	$.......**0.30**……. $.......**0.30 cents**…. Accept all unambiguous indications, as shown above	$.......**30**……. $.......**30 cents**…. (this cannot be accepted because it is ambiguous, but if the dollar sign is deleted it becomes acceptable)
If cents is shown on the answer line	.......**30**…….cents ....**$0.30**…….cents	.......**0.30**…….cents ....**$30**…….cents

Duration

Accept any unambiguous method of showing duration and all reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs).

Accept	Do not accept
Any unambiguous indication using any reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs), e.g. 2 hours 30 minutes; 2h 30m; 02h 30m 5 min 24 sec; 00h 05m 24s	Incorrect or ambiguous formats, e.g. 2.30; 2.3; 2.30 hours; 2.30 min; 2h 3; 2.3h
Any correct conversion with appropriate units, e.g. 2.5 hours; 150 mins 324 seconds	2.5; 150 324
Also accept unambiguous digital stopwatch format, e.g. 02:30:00 00:05:24; 05:24s	Do not accept ambiguous indications, e.g. 02:30 5.24

Time
There are many ways to write times, in both numbers and words, and marks should be awarded for any unambiguous method. Accept time written in numbers or words unless there is a specific instruction in the question. Some examples are given in the table.

Accept	Do not accept
Any unambiguous indication of correct answer in numbers, words or a combination of the two, e.g. 07:30, 19:00	Incorrect or ambiguous formats, e.g.
0730; 07 30; 07.30; 07,30; 07-30; 7.30; 730 a.m.; 7.30am; 7.30 in the morning	07.3; 073; 07 3; 730; 73; 7.3; 7.3am; 7.30p.m
Half past seven (o'clock) in the morning Thirty minutes past seven am Also accept: O-seven-thirty	
1900; 19 00; 19_00 etc.	19; 190; 19 000; 19.00am; 7.00am
Nineteen hundred (hours) Seven o'clock in the afternoon/evening	
Accept correct conversion to 12-hour clock, e.g. 16:42 4:42 p.m.	4.42am; 0442; 4.42
Sixteen forty two Four-forty-two in the afternoon/evening Four forty two p.m. Forty two (minutes) past four p.m. Eighteen (minutes) to five in the evening	Forty two (minutes) past sixteen Eighteen (minutes) to seventeen
Also accept a combination of numbers and words, e.g. 18 minutes to 5 p.m. 42 minutes past 4 in the afternoon	

	Question		Mark	Answer	
1		2Nn3	1	Accept any answers that indicate 'add 4' or '+ 4'	e.g. each number is 4 more (bigger)

	Question		Mark	Answer	
2		2Nc3	1	△ Can be any number ▢ Must be the answer to △ + 8	

	Question		Mark	Answer	
3		2Ss1	1	3	

	Question		Mark	Answer	
4		2P5	1	($)56	

	Question		Mark	Answer	
5		2D1	1	5	

	Question		Mark	Answer	
6a		3Nc7	1	($)27	
b		3Nc7	1	3 (seats)	

	Question		Mark	Answer	
7		3Sm8	1	Saturday	

	Question		Mark	Answer	
8		4Nn13	1	25(g)	

	Question		Mark	Answer	
9		4Nc8	1	7 x 4 should be corrected to = 28, not = 27 9 x 4 should be corrected to = 36, not = 35	Both correct for 1 mark

	Question		Mark	Answer	
10		4Ss2	1		Both correct for 1 mark. Accept any indication to show the correct answer.

	Question		Mark	Answer	
11a		4Sp2	1	NE accept northeast	
b		4Sp4	1		Any indication will do.

	Question		Mark	Answer	
12		4Sm2	1	Accept either 3.95 m or 3m 95cm	Also accept 3950mm

	Question		Mark	Answer	
13		4P5	1	30 (legs)	

	Question		Mark	Answer	
14		4P1	3	1 mark for evidence of 10 hooks cost \$3.70 and 4 floats cost \$7.20 1 mark for evidence of Total cost of items = \$3.70 + \$7.20 + \$15.50 = \$26.40 1 mark for evidence of Change from \$50 = \$50 - \$26.40 = \$23.60	3 marks in total

	Question		Mark	Answer	
15a		4D2	1	15	Do not accept tally
b		4D2	1	Scooter \\\\ \\\\ \\\\ II	

	Question		Mark	Answer	
16a		5Nn3	1	<u>24 645</u> <u>23 690</u> <u>23 546</u>	
b		5Nn3	1	any one answer 25 235 to 25 244 inclusive	

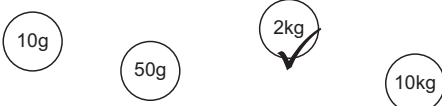|	Question		Mark	Answer	
17		5Ss3	1		All 4 lines correct for 1 mark. Allow any indication of the correct lines of symmetry.

	Question	Mark	Answer	
18	5P6	2	18.9(kg)	2 marks for correct answer. If working includes a method of finding 5% of 18 eg. 18 ÷ 10 ÷ 2 = 0.9, award 1 mark even if final answer is incorrect

	Question	Mark	Answer	
19a	5P4	1	Length plus length plus width plus width or 2 x length add 2 x width or 2 x (length +width)	Any equivalent statement is acceptable.
b	5P4	1	280 (m)	

	Question	Mark	Answer	
20	6Nn15	1	7.05, 7.5, 70.5, 75.05, 75.5	

	Question	Mark	Answer	
21	6Nc8	2	13.7	2 marks for correct answer. Allow 1 mark if a correct method is shown but final answer is incorrect. E.g. $\begin{array}{r} 13.7 \\ 5\overline{)\ 68.5} \\ -\ 50.0 \quad 10\ x\ 5 \\ \hline 18.5 \\ -\ 15.0 \quad\ 3\ x\ 5 \\ \hline 3.5 \\ -\ 3.5 \quad 0.7\ x\ 5 \\ \hline 0.0 \end{array}$ $\begin{array}{r} 1\ 3\ .\ 7 \\ 5\overline{)\ 6\ ^18\ .\ ^35} \end{array}$

	Question	Mark	Answer	
22	6Ss3	1	Net B	

	Question	Mark	Answer	
23a	6Sm4	1	(10g) (50g) (2kg)✓ (10kg)	Accept any indication of 2kg.
b	6Sm4	1	73mm	Accept answers from 71 to 75mm

	Question	Mark	Answer	
24	6D1	2	A 1 to 6 dice will land on an even number	1 mark
			Sam will choose a red sweet from a bag containing 4 red and 4 blue sweets.	1 mark

	Question	Mark	Answer	
25a	6Nn20	1	4	
b	6Nn20	1	13	

	Question	Mark	Answer	
26a	6Sp1	1		
b	6Sp1	1	(4 , -1)	

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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

MATHEMATICS   **0842/02**

Paper 2   **October/November 2008**

MARK SCHEME

Maximum Mark : 39

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- Each question and part question should be considered independently and marks for one question should not be disallowed if they are contradicted by working or answers in another question or part question.

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- Any method of setting out working should be accepted.

- Standard rules for acceptable formats of answers involving units, money, duration and time are given overleaf.

Each question on the test paper has a box beside it for the teacher to record the mark obtained. It is advisable to use these boxes so that students, and others looking at the test papers, can clearly see where the marks have been awarded.

It should also be noted that marking in red ink and using the mark boxes is an essential requirement for the Achievement tests.

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In most places on the mark schemes acceptable and unacceptable alternative answers are given in detail, however some general rules are given overleaf and are not necessarily repeated in full for each question that they apply.

Number and Place value
The table shows various general rules in terms of acceptable decimal answers.

Accept
Accept omission of leading zero if answer is clearly shown, e.g.   **.675**
Accept tailing zeros, unless the question has asked for a specific number of decimal places, e.g.   **0.7000**
Always accept appropriate tailing zeros, e.g.   **3.00m; 5.000kg**
Accept a comma as a decimal point if that is that convention that you have taught the students, e.g.   **0,638**

Units

For questions involving quantities, e.g. length, mass, time or money, correct units must be given in the answer. The table shows acceptable and unacceptable versions of the answer 1.85m.

	Correct answer	**Also accept**	**Do not accept**
Units are not given on answer line and question does not specify unit for the answer.	1.85m	Correct conversions provided that the unit is stated, e.g. 1m 85cm 185cm 1850mm 0.00185km	1.85 185m
If the unit is given on the answer line, e.g. …………………………….m	…..1.85…… m	Correct conversions, provided the unit is stated unambiguously, e.g. …..185cm….. m	…..185……m …..1850…. m etc.
If the question states that the answer should be given in a specified unit, e.g. "Give your answer in metres"	1.85m	1.85 1m 85cm	185; 1850 Any conversions to other units, e.g. 185cm

Note: if the answer line is left blank but the correct answer is given elsewhere on the page, it can be marked correct if the units match those on the answer line or are unambiguously stated.

Money

For questions involving money, it is essential that appropriate units are given in the answer.

The table shows acceptable and unacceptable versions.

	Accept	Do not accept
If the amount is in dollars and cents, the answer should be given to two decimal places.	$0.30 $9 or $9.00	
If units are not given on answer line	Any unambiguous indication of the correct amount, e.g. 30 cents; 30 c $0.30; $0.30c; $0.30cents $0-30; $0=30; $0:30	30 or 0.30 without a unit Incorrect or ambiguous answers, e.g. $0.3; $30; $30cents; 0.30cents
If $ is shown on the answer line	$.......**0.30**……. $.......**0.30 cents**…. Accept all unambiguous indications, as shown above	$.......**30**……. $.......**30 cents**…. (this cannot be accepted because it is ambiguous, but if the dollar sign is deleted it becomes acceptable)
If cents is shown on the answer line	.......**30**…….cents ....**$0.30**…….cents	.......**0.30**…….cents ....**$30**…….cents

Duration

Accept any unambiguous method of showing duration and all reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs).

Accept	Do not accept
Any unambiguous indication using any reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs), e.g. 2 hours 30 minutes; 2h 30m; 02h 30m 5 min 24 sec; 00h 05m 24s	Incorrect or ambiguous formats, e.g. 2.30; 2.3; 2.30 hours; 2.30 min; 2h 3; 2.3h
Any correct conversion with appropriate units, e.g. 2.5 hours; 150 mins 324 seconds	2.5; 150 324
Also accept unambiguous digital stopwatch format, e.g. 02:30:00 00:05:24; 05:24s	Do not accept ambiguous indications, e.g. 02:30 5.24

     [Turn over

Time

There are many ways to write times, in both numbers and words, and marks should be awarded for any unambiguous method. Accept time written in numbers or words unless there is a specific instruction in the question. Some examples are given in the table.

Accept	Do not accept
Any unambiguous indication of correct answer in numbers, words or a combination of the two, e.g. 07:30, 19:00	Incorrect or ambiguous formats, e.g.
0730; 07 30; 07.30; 07,30; 07-30; 7.30; 730 a.m.; 7.30am; 7.30 in the morning	07.3; 073; 07 3; 730; 73; 7.3; 7.3am; 7.30p.m
Half past seven (o'clock) in the morning Thirty minutes past seven am Also accept: O-seven-thirty	
1900; 19 00; 19_00 etc.	19; 190; 19 000; 19.00am; 7.00am
Nineteen hundred (hours) Seven o'clock in the afternoon/evening	
Accept correct conversion to 12-hour clock, e.g. 16:42 4:42 p.m.	4.42am; 0442; 4.42
Sixteen forty two Four-forty-two in the afternoon/evening Four forty two p.m. Forty two (minutes) past four p.m. Eighteen (minutes) to five in the evening	Forty two (minutes) past sixteen Eighteen (minutes) to seventeen
Also accept a combination of numbers and words, e.g. 18 minutes to 5 p.m. 42 minutes past 4 in the afternoon	

	Question	Mark	Answer	
1	2Nn10	1	89	

	Question	Mark	Answer	
2	2Nc21	1	($)90	

	Question	Mark	Answer	
3	2P5	2	**2** (hours) **30** (minutes) 2 marks for correct answer. Award 1 mark if 150 minutes is shown in working out. Also award 1 mark if the hours and minutes are correct based on the wrong number of minutes, e.g. 100 minutes worked out, with 1 hours 40 minutes.	

	Question	Mark	Answer	
4a	2D1	1	7	
b	2D1	1	4	

	Question	Mark	Answer	
5	2Ss1	1	Cuboid	Accept square prism or rectangular prism.

	Question	Mark	Answer	
6	2Sm2	1	Accept 145 (cm).	

	Question	Mark	Answer	
7a	4D5	1	23	
b	4D5	1	9	

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	Question		Mark	Answer	
8a		4Nn16	1	$\frac{6}{100}$ accept 'hundredths' (spelling not important)	or equivalent
b		5Nn20	1	$\frac{6}{10}$ or equivalent	

	Question		Mark	Answer	
9a		4Nn12	1	4	
b		4Nn12	1	2	

	Question		Mark	Answer	
10		4Nc7	1	13	

	Question		Mark	Answer	
11a		5P1	1	12.23 pm Accept 12.23pm	Also accept 12:23 or 12.23
b		5P1	1	29 minutes	

	Question		Mark	Answer	
12		4Ss1	1	(Regular) hexagon	Accept reasonable misspellings. hexagon or regular hexagon

	Question		Mark	Answer	
13		4Sp7	1	360°	Accept 360

	Question		Mark	Answer	
14a		4Sm7	1	11:23	Accept 11.23, 23:23 or 23.23 Do not accept any words in the answer. Except am or pm.
b		4Sm7	1	02:50 or 14:50	Also accept 2:50.

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	Question	Mark	Answer	
15	5P2	1	Any three numbers which correctly total 1. For example, 0.2 + 0.3 + 0.5	Accept fractions, decimals and negative integers All three numbers must be different.

	Question	Mark	Answer	
16a	5Sp2	1	Either A and C or B and D.	Accept C and A or D and B
b	5Sp2	1	Any one of: A and B B and A B and C C and B C and D D and C D and A A and D	

	Question	Mark	Answer	
17a	5Sm4	1	g or kg Award mark if both circled.	Accept any reasonable indication of a correct answer.
b	5Sm4	1	200 mm	Accept any reasonable indication of a correct answer.

	Question	Mark	Answer	
18a	6Nc6	1	40	
b	6Nc4	1	3	Do not accept "2 remainder 2", or "2"

	Question	Mark	Answer	
19	6D4	1	2.81 (seconds)	

	Question		Mark	Answer	
20a		5Nn14	1	$\dfrac{19}{4}$	
b		5Nn14	1	$\dfrac{15}{20}$ $\dfrac{12}{20}$ $\boxed{\dfrac{15}{24}}$ $\dfrac{10}{15}$ $\dfrac{20}{28}$	Any indicator of the correct answer will do

	Question		Mark	Answer	
21		6Nn13	2	($)12 and ($)16	1 mark for each correct answer

	Question		Mark	Answer	
22		5P3	2	Byama is correct Accept explanations such as: $\dfrac{1}{2} = \dfrac{5}{10} = 0.5$ 0.5 is five tenths which simplifies to ½ Diagrams which show the 2 quantities are equivalent.	1 mark 1 mark

	Question		Mark	Answer			
23		6Ss1	2	Four equal sides.	Four right angles.	One pair of opposite parallel sides.	2 marks for all three correct answers. 1 mark for correct answer.
				Rhombus	Rectangle	Trapezium	

	Question		Mark	Answer	
24a		6Nn8	1	1　②　③　4　⑤　6　⑦ 8　9　10　⑪　12　⑬　14　15 16　⑰　18　⑲　20	All eight should be circled with **no** errors.

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	Question	Mark	Answer	
25	6Nc2	1	5 x **(** 3 + 7 **)** - 20 = 30	

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Mathematics

Mark Schemes

Cambridge International Primary Achievement Test

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International Examinations

Maths mark schemes – Achievement Test

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Accept a comma as a decimal point if that is that convention that you have taught the children, e.g. 0,638

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If the unit is given on the answer line, e.g. ……………………………m	…..1.85…… m	Correct conversions, provided the unit is stated unambiguously, e.g. …..185cm….. m	…..185……m …..1850.… m etc.
If the question states the unit that the answer should be given in a specified unit, e.g. "Give your answer in metres"	1.85m	1.85 1m 85cm	185; 1850 Any conversions to other units, e.g. 185cm

Note: if the answer line is left blank but the correct answer is given elsewhere on the page it can be marked correct if the units match those on the answer line or are unambiguously stated.

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If cents is shown on the answer line	.......**30**…….cents ....**$0.30**…….cents	.......**0.30**…….cents ....**$30**…….cents

Duration

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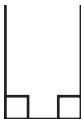| Accept	Do not accept
Any unambiguous indication using any reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs), e.g. 2 hours 30 minutes; 2h 30m; 02h 30m 5 min 24 sec; 00h 05m 24s	Incorrect or ambiguous formats, e.g. 2.30; 2.3; 2.30 hours; 2.30 min; 2h 3; 2.3h
Any correct conversion with appropriate units, e.g. 2.5 hours; 150 mins 324 seconds	2.5; 150 304
Also accept unambiguous digital stopwatch format, e.g. 02:30:00 00:05:24; 05:24s	Do not accept ambiguous indications, e.g. 02:30 5.24

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There are many ways to write times, in both numbers and words, and marks should be awarded for any unambiguous method. Accept time written in numbers or words unless there is a specific instruction in the question. Some examples are given in the table.

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Any unambiguous indication of correct answer in numbers, words or a combination of the two, e.g. 07:30, 19:00 0730; 07 30; 07.30; 07,30; 07-30; 7.30; 730 a.m.; 7.30am; 7.30 in the morning Half past seven (o'clock) in the morning Thirty minutes past seven am Also accept: O-seven-thirty 1900; 19 00; 19_00 etc. Nineteen hundred (hours) Seven o'clock in the afternoon/evening Accept correct conversion to 12-hour clock, e.g. 16:42 4:42 p.m. Sixteen forty two Four-forty-two in the afternoon/evening Four forty two p.m. Forty two (minutes) past four p.m. Eighteen (minutes) to five in the evening Also accept a combination of numbers and words, e.g. 18 minutes to 5 p.m. 42 minutes past 4 in the afternoon	Incorrect or ambiguous formats, e.g. 07.3; 073; 07 3; 730; 73; 7.3; 7.3am; 7.30p.m 19; 190; 19 000; 19.00am; 7.00am 4.42am; 0442; 4.42 Forty two (minutes) past sixteen Eighteen (minutes) to seventeen

Cambridge International Primary Achievement Test- Mathematics Paper 1

	Question	Mark	Answer	Additional information
1	3Nn7	1	One thousand and thirteen.	Accept mis-spellings where the answer is correctly intended.
2	3Nn6	1	7 4 9 → units hundreds tens (lines crossed)	
3	3Nc11	1	21	
4	3P6	1	20c, 20c, 5c, 2c, 1c **or** 20c, 20c, 5c, 1c, 1c, 1c **or** 20c, 10c, 10c, 5c, 2c, 1c **or** 20c, 10c, 10c, 5c, 1c, 1c, 1c	
5	3P2	1	14	
6	3D1	2	Table: 3 spots – **6**; **5 spots** – 3; 7 spots – 2	1 mark for each table cell completed correctly.
7	3Ss1	1	Shape a	Accept 'a', also accept 'square'
8a	4Nn9	1	3, -2	**Both** numbers must be correct to get the mark
b	6Nn15	1	501, 51, 5.1, 5.01, 0.51	**All** must be correct to get the mark
9	3Sp2	1	North	
10	3Sm6	1	One hour and thirty minutes.	Accept 1 hour 30 minutes, one and a half hours, 1 hr 30 mins or 1:30.
11	4Nn2	1	9762	

Question		Mark	Answer	Additional information
12a	4Nc4	1	446	
b	4Nc4	1	1212	
13	4P5	1	The new total is 459.	Award 1 mark for evidence of correct process with one calculator error.
		1	The working must show evidence of 19 + (2 × 7) + (3 × 3) = 42 and 501 – 42 = 459 The additions can be in any order.	
14a	5Ss1	1	Yes	
b	5Ss1	1	The explanation must refer to either (i) the angles in a triangle total 180 degrees; a right angle is 90 degrees so two of them add up to 180 degrees, leaving a third angle of 0 degrees which is impossible. (ii) a diagram showing an open shape with three sides and two right angles. (iii) a description of (ii) in words. It could include that if two lines are both at right angles from a third line, they will never meet (because they are parallel).	
15	4D2	1	3	

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Question		Mark	Answer	Additional information
16a	4Ss5	1		
b	4Ss5	1		Shapes must be drawn accurately with a ruler. Do not accept freehand drawings.
17	4Sp2	1	(7, 4)	
18	4Sm4	1	1250	
19a	5Nn14	1	$3\frac{1}{4}$	
b	5Nn14	1	$\frac{2}{6}$ $\frac{3}{9}$	
20	6Nc8	1	39456	
21	5Nc6	1	(13 × 3 + 6) × 2 = 90	

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	Question	Mark	Answer	Additional information
22	5P4	1	The answer should include evidence of knowledge that y and x are variables, and that if you multiply **x** by 3 then add 2, you get **y**.	
23a	6D1	1		
b	6D1	1	Accept any answer from: • even • 0.5 • 50% • $\frac{1}{2}$ • half chance • equally likely	
24	5Ss1	1	Description should include • has two equal angles • has two equal sides	
25	5Sp5	1	 Angle ABC should be accurate to within 1 degree, i.e. within the range 135° to 137°.	
26	5Sm6	1	C 6.4 m	

Question		Mark	Answer	Additional information
27a	5Nn17	1	1.5	
b	5Nn17	1	3.5	Award mark if answer (b) = 5 – answer (a)
28	5Nn16	1	144	
29	5Nc12	1	1950	
30	5P6	1	29.7	

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Mathematics

Mark Schemes

Cambridge International Primary Achievement Test

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Units are not given on answer line and question does not specify unit for the answer.	1.85m	Correct conversions provided that the unit is stated, e.g. 1m 85cm 185cm 1850mm 0.00185km	1.85 185m
If the unit is given on the answer line, e.g. …………………………m	…..1.85…… m	Correct conversions, provided the unit is stated unambiguously, e.g. …..185cm….. m	…..185……m …..1850.… m etc.
If the question states the unit that the answer should be given in a specified unit, e.g. "Give your answer in metres"	1.85m	1.85 1m 85cm	185; 1850 Any conversions to other units, e.g. 185cm

Note: if the answer line is left blank but the correct answer is given elsewhere on the page it can be marked correct if the units match those on the answer line or are unambiguously stated.

Money

For questions involving money, it is essential that appropriate units are given in the answer.

The table shows acceptable and unacceptable versions.

	Accept	Do not accept
If the amount is in dollars and cents, the answer should be given to two decimal places.	$0.30 $9 or $9.00	$09 or $09.00
If units are not given on answer line	Any unambiguous indication of the correct amount, e.g. 30 cents; 30 c $0.30; $0.30c; $0.30cents $0-30; $0=30; $0:30	30 or 0.30 without a unit Incorrect or ambiguous answers, e.g. $0.3; $30; $30cents; 0.30cents
If $ is shown on the answer line	$.......**0.30**……. $.......**0.30 cents**…. Accept all unambiguous indications, as shown above	$.......**30**……. $.......**30 cents**…. (this cannot be accepted because it is ambiguous, but if the dollar sign is deleted it becomes acceptable)
If cents is shown on the answer line	.......**30**…….cents ....**$0.30**…….cents	.......**0.30**…….cents ....**$30**…….cents

Duration

Accept any unambiguous method of showing duration and all reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs).

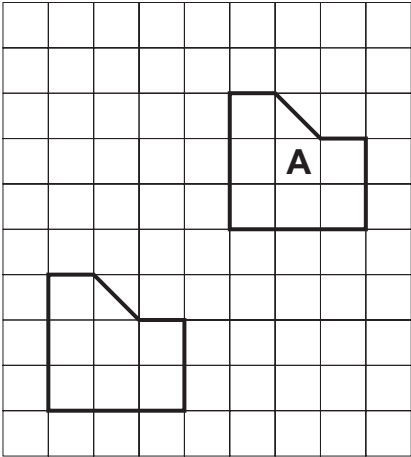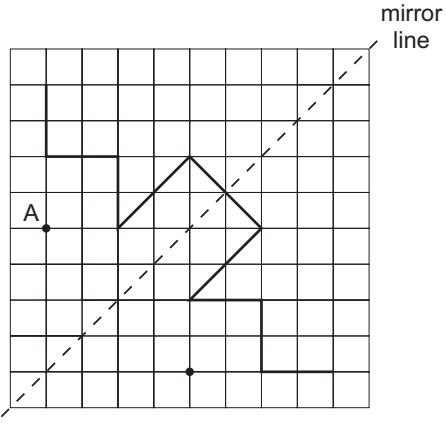| Accept	Do not accept
Any unambiguous indication using any reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs), e.g. 2 hours 30 minutes; 2h 30m; 02h 30m 5 min 24 sec; 00h 05m 24s	Incorrect or ambiguous formats, e.g. 2.30; 2.3; 2.30 hours; 2.30 min; 2h 3; 2.3h
Any correct conversion with appropriate units, e.g. 2.5 hours; 150 mins 324 seconds	2.5; 150 304
Also accept unambiguous digital stopwatch format, e.g. 02:30:00 00:05:24; 05:24s	Do not accept ambiguous indications, e.g. 02:30 5.24

Time

There are many ways to write times, in both numbers and words, and marks should be awarded for any unambiguous method. Accept time written in numbers or words unless there is a specific instruction in the question. Some examples are given in the table.

Accept	Do not accept
Any unambiguous indication of correct answer in numbers, words or a combination of the two, e.g. 07:30, 19:00 0730; 07 30; 07.30; 07,30; 07-30; 7.30; 730 a.m.; 7.30am; 7.30 in the morning Half past seven (o'clock) in the morning Thirty minutes past seven am Also accept: O-seven-thirty 1900; 19 00; 19_00 etc. Nineteen hundred (hours) Seven o'clock in the afternoon/evening Accept correct conversion to 12-hour clock, e.g. 16:42 4:42 p.m. Sixteen forty two Four-forty-two in the afternoon/evening Four forty two p.m. Forty two (minutes) past four p.m. Eighteen (minutes) to five in the evening Also accept a combination of numbers and words, e.g. 18 minutes to 5 p.m. 42 minutes past 4 in the afternoon	Incorrect or ambiguous formats, e.g. 07.3; 073; 07 3; 730; 73; 7.3; 7.3am; 7.30p.m 19; 190; 19 000; 19.00am; 7.00am 4.42am; 0442; 4.42 Forty two (minutes) past sixteen Eighteen (minutes) to seventeen

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	Question	Mark	Answer	Additional information
1	3Nn9	1	1757, 2018, 2187, 2508, 2575	
2	3Nn11	1	1000	
3a	3P8	1	3.75	
b	3P8	1	1.05	
4	3P1	1	55	
5	3D1	1	24	
6	3Ss3	1	c	
7	3Sp2	1	W or west	
8	3Sm7	1	2 hours 15 minutes.	Accept 2 and a quarter hours, or the same in figures. Also accept 135 minutes.
9	4Nn16	1	Hundredths	
10a	4Nc6	1	19	
b	4Nc6	1	4	
11a	4P5	1	374.97	
b	4P5	1	37.50	Also accept: the answer to (a) × 10%
12a	4P2	1	14	
b	4P2	1	81	
13a	4D5	1	13	
b	4D5	1	10	
14	4Ss2	1	C	
15	4Sp8	1	20	
16a	4Sm5	1	39	
b	4Sm5	2	78 cm^2	1 mark for 78 1 mark for cm^2

Question		Mark	Answer	Additional information
17	5Nn15	1	$1\dfrac{3}{5}$, $\dfrac{4}{5}$, $\dfrac{5}{10}$, $\dfrac{2}{5}$, $\dfrac{2}{10}$	
18	5Nn20	2	<table><tr><td>Fraction</td><td>Decimal</td></tr><tr><td>$\dfrac{1}{5}$</td><td>**0.20**</td></tr><tr><td>**$\dfrac{2}{5}$**</td><td>0.40</td></tr><tr><td>$\dfrac{1}{5}$</td><td>0.80</td></tr></table>	1 mark for each correct answer. Accept 0.2 instead of 0.20
19	5Nc13	1	6460	
20a	5P5	1	34	
b	5P5	1	Accept any answer implying the two previous numbers are added to make the next number in the sequence.	
21	5P1	1	8	
22	6D5	1	78	
23	5Ss5	1		Shape correctly drawn, using ruler.
24	5Sp2	1	A	

	Question	Mark	Answer	Additional information
25a	6D3	1	23 (accept 24)	
b	6D3	1	32 (accept answers in range 30, 31, 32)	
26	5Ss2	2	 **(a)** Pattern completed as shown. **(b)** Point A is positioned at (5, 1)	One mark for each part correctly completed.
27a	5Sp3	1	82	Accept 81 or 83
b	5Sp3	1	133	Accept 132 or 134