Cambridge Assessment International Education

Cambridge Primary Sample Test

For use with curriculum published in September 2020

Mathematics Paper 1

Mark Scheme

Stage 3

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General guidance on marking

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.

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.

These tables give 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.

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**

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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
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; $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.....; $.....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~~

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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, i.e. 18 minutes, of an hour 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.

The table 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 or no 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

Negative numbers

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

Accept	Do not accept
–2	2–

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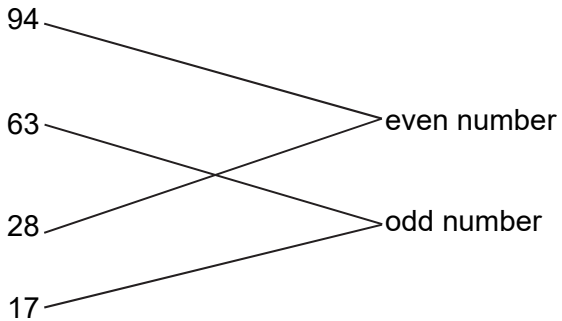
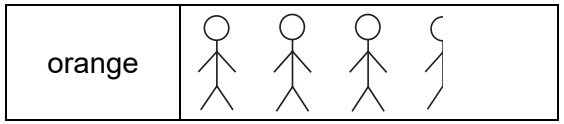
Question	Answer	Mark	Part Marks	Guidance
1	306	**1**		**Accept** three hundred and six.
2	Line measuring 7 cm	**1**		**Accept** +/- 2 mm.
3	305 **and** 295	**1**		Both numbers in correct order for one mark.
4	12 (counters)	**1**		
5		**1**		All **three** lines correct for 1 mark.
6		**1**		**Accept** slight inaccuracies in drawing.
7	$(3 \times 9 = 27)$ $4 \times$ **6** $= 24$ $\quad 3 \times 7 =$ **21** **5** $\times 8 = 40$	**1**		All **three** numbers correct for 1 mark.

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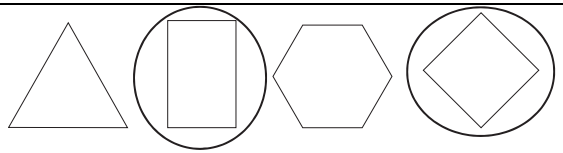
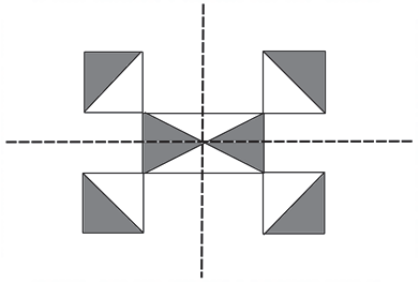
Question	Answer	Mark	Part Marks	Guidance
8	25c, 25c, 10c, 10c **or** 50c, 10c, 5c, 5c	**1**		**Accept** answers with no units e.g. 25, 25, 10, 10 **or** with cents written in full.
9	2000 (millilitres)	**1**		
10		**1**		Both shapes must be circled and no others for 1 mark.
11	$15 \times 4 = 10 \times 4 + \boxed{5} \times 4$	**1**		**Accept** number written in words.
12	7 (months)	**1**		
13		**1**		Both lines must be drawn for 1 mark. **Accept** inaccuracies in drawing provided the intention is clear.
14	35	**1**		**Accept** answer seen on diagram.
15	An explanation that shows that a diagram would be better, e.g. She could use a tally chart / frequency table / bar chart / pictogram.	**1**		
16	$\frac{8}{10}$	**1**		**Accept** equivalent fractions.

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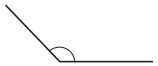
<table>
<tr><th>Question</th><th>Answer</th><th>Mark</th><th>Part Marks</th><th>Guidance</th></tr>
<tr><td>17</td><td>
<table>
<tr><th>Angle</th><th>Less than a right angle</th><th>Equal to a right angle</th><th>Greater than a right angle</th></tr>
<tr><td> </td><td></td><td>(✓)</td><td></td></tr>
<tr><td>  </td><td></td><td></td><td>✓</td></tr>
<tr><td> </td><td>✓</td><td></td><td></td></tr>
<tr><td> </td><td></td><td>✓</td><td></td></tr>
</table>
</td><td>1</td><td></td><td>All three ticks correct for 1 mark.</td></tr>
<tr><td>18</td><td>203</td><td>1</td><td></td><td></td></tr>
<tr><td>19</td><td>(north 2)
(east 6)
north 9
west 7
south 4
west 2</td><td>2</td><td>Award 1 mark for two or three correct instructions
or
for all numbers correct (9, 7, 4, 2)
or
for all directions correct (north, west, south, west).</td><td>All four instructions must be correct for 2 marks.

Accept abbreviations, e.g. N for north.</td></tr>
</table>

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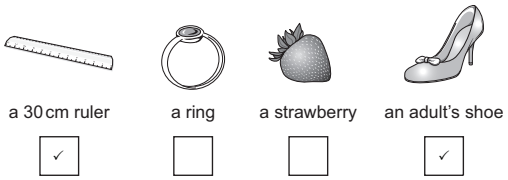
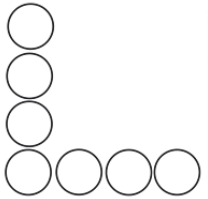
Question	Answer	Mark	Part Marks	Guidance
20	You will fall over tomorrow. → might happen You will climb to the top of Mount Everest tomorrow. → will not happen You will be a day older tomorrow. → will happen	**1**		All **three** lines must be correct for 1 mark.
21	16 (bags)	**1**		
22		**1**		Both images must be ticked and no others for 1 mark.
23a		**1**		**Accept** inaccuracies in drawing.
23b	15 (circles)	**1**		

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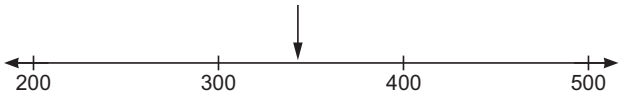
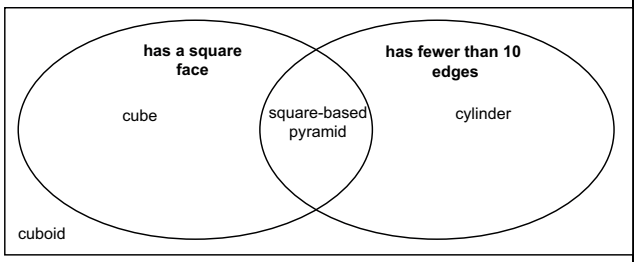
Question	Answer	Mark	Part Marks	Guidance
24		**1**		Arrow must be less than a half and more than a quarter of the way along the line between 300 and 400 (between 1 and 2 cm from 300).
25		**2**	Award 1 mark for **two** or **three** shapes in the correct place.	All **four** shapes must be correct for 2 marks.
26	5 3 + 4 7 = 100 **or** 4 3 + 5 7 = 100	**1**		**Accept** numbers in either order.
27	C **and** an explanation that shows that the quarters must be equal in size, e.g. in C the sections are equal.	**1**		

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