Cambridge Assessment International Education

Cambridge Primary Sample Test

For use with curriculum published in September 2020

Mathematics Paper 2

Mark Scheme

Stage 5

Maths_S5_02_MS/6RP

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**

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

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; 30c $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.....; $.....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, 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.

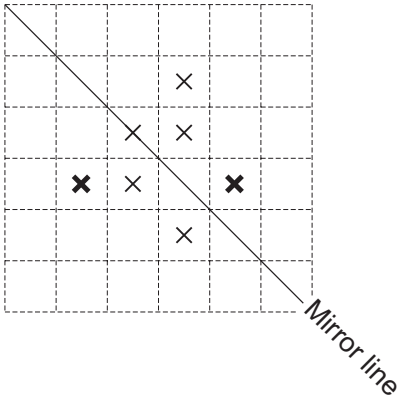
The table shows acceptable and unacceptable versions of the answer 07:30.

	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

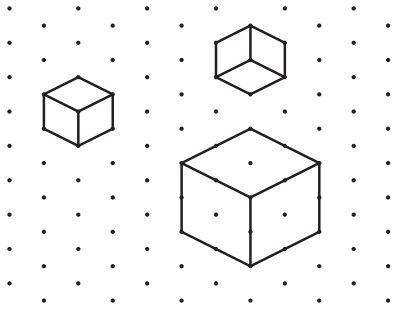
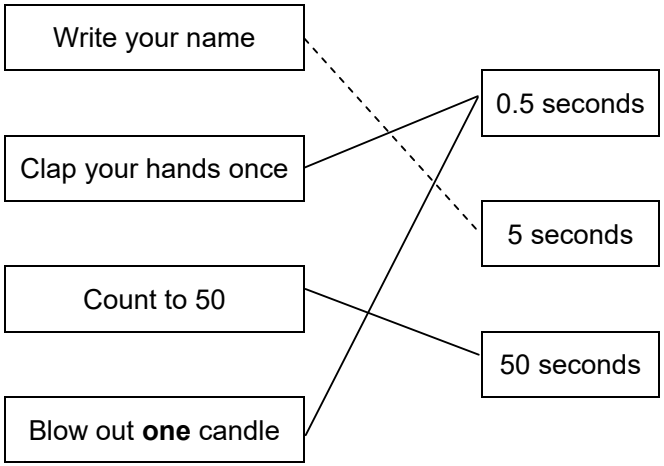
Negative numbers

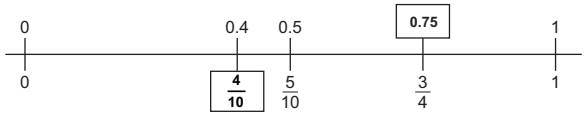
The table shows acceptable and unacceptable versions of the answer –2.

Accept	Do not accept
–2	2–

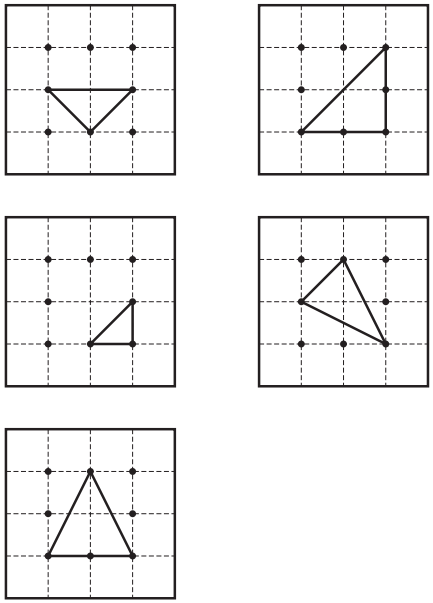
Question	Answer	Mark	Part Marks	Guidance
1	4200	**1**		**Accept** 'four thousand two hundred' written in words.
2	$2.34 + 0.43$ **>** $1.55 + 1.11$ $5.4 - 0.9$ **=** $6.4 - 1.9$	**1**		Both correct for the mark.
3		**1**		Both correct for the mark. No extra crosses accepted.
4	$\frac{1}{9}$	**1**		**Accept** any equivalent fraction.

Question	Answer	Mark	Part Marks	Guidance
5	<table><tr><td></td><td>Maximum flying height 10 kilometres or more</td><td>Maximum flying height 10 kilometres or less</td></tr><tr><td>Endangered</td><td></td><td>Alpine chough</td></tr><tr><td>Not endangered</td><td>Common crane</td><td></td></tr></table>	**1**		Both correct for the mark.
6	$\frac{9}{10}$	**1**		**Accept** equivalent fractions or 0.9
7	450 **540** **504** 405 445 **544**	**1**		All correct for the mark.
8	40 (%)	**1**		

Question	Answer	Mark	Part Marks	Guidance
9	Sketch of a cube, e.g. 	**1**		Sketch of one cube drawn anywhere on the grid. **Accept** any size cube. **Accept** any orientation. **Ignore** hidden lines drawn.
10	345 346 354	**1**		All correct for the mark. **Ignore** 353
11		**1**		

Question	Answer	Mark	Part Marks	Guidance
12(a)	4 (tiles)	**1**		
12(b)	28 (tiles)	**1**		
13(a)	96 (cm^2)	**1**		
13(b)	44 (cm)	**2**	Award 1 mark for sight of correct method with one error, e.g. $8 \times 4 + 2 \times 6$ = wrong answer **or** $(6 + 8) \times 2 \times 2 - 12$ = wrong answer **or** for all lengths written on diagram.	
14		**2**	Award 1 mark for **one** correct answer.	**Accept** equivalent fractions for $\frac{4}{10}$
15	56 (boxes)	**1**		**Do not accept** 56.5 **Do not accept** 56 remainder 3
16	**3** **4** **9** × **5** = 1745	**1**		

Question	Answer	Mark	Part Marks	Guidance
17	The number of people in his class who like apples. ✓ The names of the people in his class. The number of people in his school who like pears. The number of people in his class who like pears. ✓ The number of people in his class who like oranges.	1		**Accept** any clear indication. **Accept** x instead of blank.
18	The numbers in the set are **all** divisible by 1, …**5**... and …**25**. . The numbers in the set that are divisible by 50 are ……**150 and 400**……	2	Award 1 mark for **one** correct statement.	
19	Hassan picks an odd number. Hassan picks a number less than 5 Hassan picks number 9 ✓ Hassan picks a number between 4 and 7	1		**Accept** any clear indication. No other statements ticked.

Question	Answer	Mark	Part Marks	Guidance
20	54	**1**		
21	Two isosceles triangles from the following: 	**2**	Award 1 mark for only one isosceles triangle and one non-isosceles triangle given, **or** same isosceles triangle repeated.	**Accept** any two isosceles triangles drawn using the dots. **Do not accept** the same triangle drawn in different orientations for 2 for marks.
22(a)	4 (months)	**1**		**Accept** February, March, May and June.
22(b)	April	**1**		

Question	Answer	Mark	Part Marks	Guidance
23(a)	Both values between or including 300 and 500 g **and** Weight of a can = 1.5 × weight of box	**1**		E.g. Box 310 g Can 465 g **Accept** box 300 g and can 450 g. **Accept** box 333.3 g and can 500 g.
23(b)	A different pair of values to **(a)** following the same rules.	**1**		
24(a)	A and C	**1**		
24(b)	An explanation that includes reference to the fact the intermediate points have no meaning.	**1**		Explanations include: • It's not continuous data. • It is discrete data. • There's nothing between bus and walk. • You can't have part of a person.

Question	Answer	Mark	Part Marks	Guidance
25(a)	Prism **or** Has at least 5 faces. **or** Has at least 6 vertices.	**1**		**Accept** has straight edges.
25(b)	Name of any 3D shape that has at least one triangular face but is not a prism. **or** Name of any 3D shape that has at least one triangular face and fewer than 5 faces. **or** Name of any 3D shape that has at least one triangular face and fewer than 6 vertices.	**1**		E.g. tetrahedron, pyramid, octahedron, square-based pyramid. **Do not accept** triangular prism.
26	Cards completed in any order with 3, 3, 6, any number larger than 7	**1**		
27	25 (%)	**1**		**Do not accept** fractions.
28	20:00	**1**		**Accept** 8 pm.

Question	Answer	Mark	Part Marks	Guidance
29	4.5 hours — Mike 4 hours and 40 minutes — Carlos 299.5 minutes — Gabriella 4.1 hours — Jamila	**2**	Award 1 mark for **two** or **three** correct.	

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