

# Cambridge Primary Sample Test For use with curriculum published in September 2020

Mathematics Paper 2
Mark Scheme
Stage 4

# 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.g185 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; 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	30cents	0.30cents  Ambiguous answers, e.g\$30cents;\$0.30cents  unless units on the answer line have been deleted, e.g\$0.30cents

# **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	Incorrect or ambiguous formats, e.g. 2.30; 2.3; 2.30 hours; 2.30 min; 2h 3; 2.3h (this is because this indicates 0.3, i.e. 18 minutes, of an hour rather than 30 minutes)
Any correct conversion with appropriate units, e.g. 2.5 hours; 150 mins unless the question specifically asks for time	02:30 (as this is a 24-hour clock time, not a time interval) 2.5; 150
given in hours and minutes	

# 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; 07:30	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	6000 or 6 thousands	1		
2	32 16 26 40 44 30 56	1		All <b>four</b> numbers correctly circled for 1 mark.
3(a)	51 <b>and</b> 42	1		Both answers must be correct for 1 mark.  Accept answer written on the sequence.
3(b)	subtract 9	1		Accept an equivalent statement.

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Question	Answer	Mark	Part Marks	Guidance
4	Answer	Mark 2		Award 2 marks for all <b>four</b> lines correct.

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Question	Answer			Mark	Part Marks	Guidance
5		Even answer	Odd answer	1		Award 1 mark for all <b>three</b> boxes correct.
	An even number plus an even number	✓				
	An even number plus an odd number		✓			
	An odd number plus an odd number	✓				
6	An answer that recognises the stick man so the total must be  There is only one half  It's six even numbers number. It's an even number each thursday. It's only odd on Thurs	e odd e.g a stick n plus an o very day	nan. Odd	1		
7	The angle in a quarter turn  An angle less than 90°  An angle greater than 90° and less than 180°	obtus	e angle se angle angle	1		All <b>three</b> lines correct for 1 mark.

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Question	Answer	Mark	Part Marks	Guidance
8		2	Award 1 mark for <b>three</b> or <b>four</b> correct.	Award 2 marks for all <b>five</b> correct.
			Correct.	Do not accept blank box for 0
9	$\frac{\boxed{1}}{5} + \frac{3}{5} + \frac{\boxed{2}}{5} = \frac{6}{5}$ or $\frac{\boxed{2}}{5} + \frac{3}{5} + \frac{\boxed{1}}{5} = \frac{6}{5}$	1		
10(a)	25 (minutes)	1		
10(b)	47 (minutes)	1		
11	93 (pages)	1		

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Question	Answer	Mark	Part Marks	Guidance
12		1		Accept lines that are closer to 700 ml than to 600 ml or 800 ml.
13		1		Accept equivalent times.
	600 seconds 1 hour 10 minutes 100 minutes 100 minutes			<b>Accept</b> 600, 1, 1h 10, 100
14	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1		Accept any clear indication.
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			

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Question	Answer	Mark	Part Marks	Guidance
15		1		Award 1 mark for any <b>three</b> triangles shaded.
16	56 (cm)	1		

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Question	Answer	Mark	Part Marks	Guidance
17	(\$)16	2	or for full method with arithmetic errors:	
18(a)	3 (children)	1	$20 - (12 \div 3)$ = wrong answer.	Accept Ahmed, Naomi and Gabriella.
18(b)	Any one from: Eva, Jamila, Yuri, Mike	1		Accept more than one correct name.
19	<b>2</b> 1 ÷ <b>3</b> = 7 <b>5 4</b> ÷ <b>6</b> = 9	2	Award 1 mark for <b>one</b> correct calculation.	Award 2 marks for <b>both</b> calculations correct.
20	2 elephants and 1 lion	1		Accept answer in either order.  Accept similar animals.
21	Explanation that recognises that there will always be an odd number of sticks. e.g.  There will always be an odd number of sticks. or There will be 21 sticks. or If I keep adding 2 I won't get to 20.	1		Do not accept '20 is an even number' on its own.  Accept number of sticks = diagram × 2 + 1  Do not accept 'it's going up in 2s' on its own.

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Question	Answer	Mark	Part Marks	Guidance
22	A and B both have the same number of faces.  A and C both have the same number of vertices.	2	Award 1 mark for <b>two</b> correct answers.	All <b>three</b> needed for 2 marks.
	B and C are both <b>prisms.</b>			

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