Cambridge Assessment International Education

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

Mathematics Paper 2 Mark Scheme Stage 6

#### 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	<pre>\$30 Ambiguous answers, e.g. \$30 cents; \$0.30 cents unless units on the answer line have been deleted, e.g. \$30 cents</pre>
If cents is shown on the answer line	30cents	0.30cents Ambiguous answers, e.g. \$30cents; \$0.30cents <b>unless</b> units on the answer line have been deleted, e.g. \$0.30 <del>cents</del>

## 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 <b>unless</b> 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	

# Negative numbers

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

Accept	Do not accept
-2	2–

# Mathematics Stage 6 Paper 2 Mark Scheme

From 2020

Question		Answer			Mark	Part Marks	Guidance
1	24 (cm <sup>2</sup> )				1		
2	1				1		Accept equivalent fractions.
	8						Accept 0.125
3	3.0067 3.	.067 30.0	0067 30.067	30.67	1		Accept any clear indication.
4(a)	A B C D				1		Accept any clear indication.
4(b)	bar chart waffle diagram pie chart scatter graph line graph				1		<b>Accept</b> any clear indication.
5	Fraction	Decimal	Percentage		2	Award 1 mark for <b>three</b> or <b>four</b> correct entries.	Accept equivalent fractions for 3
	$\left(\frac{1}{2}\right)$	0.5	(50%)				10 Accept equivalent decimals for 0.5 and 0.63, e.g. 0.50 and .63
	<u>3</u> 10	(0.3)	30%				
	$\left(\frac{63}{100}\right)$	0.63	63%				

Question	Answer	Mark	Part Marks	Guidance
6	No lines of symmetryExactly 1 line of symmetryExactly 2 lines of symmetryZA CH	1		All <b>four</b> correct for 1 mark.
7	$6.043 \times 1000 \div 10 = 604.3$	1		
8(a)	circumference	1		Accept recognisable misspellings.
8(b)	diameter, radius	1		Correct order required. Accept recognisable misspellings.
9	Banana <b>and</b> an explanation that states that the bar for banana is twice as tall as the one for mango. E.g. 12 choose mango and 24 choose banana <b>or</b> because $2 \times 12$ is 24	1		
10	12	1		
11(a)	(\$)21	1		
11(b)	84 (kg)	1		

# Mathematics Stage 6 Paper 2 Mark Scheme

From 2020

Question	Answer		Mark	Part Marks	Guidance
12	A bottle with a capacity of $\frac{1}{2}$ litre can hold a volume of 1 litre.		1		Accept × for blank. Accept any clear indication.
	A bottle with a capacity of 1 litre can hold a volume of 1 litre.	<ul> <li>✓</li> </ul>			
	A bottle with a capacity of 1 litre can hold a volume of $\frac{1}{2}$ litre.	<ul> <li>✓</li> </ul>			
13	A circle of 5 cm radius with centre <b>A</b>		1		Accept radius of ± 1 mm.
14	An even number in the sequence always follows an odd number	✓	2	Award 1 mark for <b>three</b> correct ticks and <b>one</b> incorrect tick <b>or</b>	Accept × for blank. Accept any clear indication.
	The first negative number Oliver says is –4			<b>two</b> correct ticks and <b>no</b> other ticks.	
	Yuri says the number 64	✓			
	The first 3 digit number Yuri says is 100				
	Oliver says –121	✓			

# Mathematics Stage 6 Paper 2 Mark Scheme

From 2020

Question	Answer				Mark	Part Marks	Guidance
15	A correct explan stating that the 2 or some odd numb or 3 is odd and it is	ation, e.g. 2 events can ha ers are less tha 5 also less than 4	ppen at the sam n 4 4	e time	1		
16	18  cm $12  cm$ $3  cm$ $6  cm$ $4  cm$ $1  cm$				2	Award 1 mark for <b>one</b> correct answer.	
17	Flour (g)	Eggs	Number of people		2	Award 1 mark for <b>two</b> or <b>three</b> correct.	
	(120)	(3)	(15)				
	40	(1)	5				
	(240)	6	30	]			
18					1		<b>Accept</b> some inaccuracies in the drawing as long as the intention is clear.

Question	Answer	Mark	Part Marks	Guidance
19(a)	4	1		
19(b)	2.5	1		Accept equivalent answers.
20(a)	36 (cm)	1		
20(b)	7 (cm)	1		
21	102(°)	2	Award 1 mark for 78 seen <b>or</b> for full method 24 + (180 – 24)/2	Accept equivalent methods.
22(a)	Point plotted at (8, 7)	1		
22(b)	9	1		
23	A B C D E F	2	Award 1 mark for exactly <b>two</b> correct <b>or</b> for <b>three</b> right and <b>one</b> wrong.	Accept × for blank. Accept any clear indication.
24(a)	$5 \times (4 + 3 \times 2) = 50$	1		
24(b)	$7 + 5 \times (1 + 3) - 4 = 23$	1		
25	16	1		
26	9 (cm)	2	Award 1 mark for sight of 81	

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