Cambridge Assessment International Education

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

Mathematics Paper 1 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	<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 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–

Mathematics Stage 4 Paper 1 Mark Scheme

Question	Answer	Mark	Part Marks	Guidance
1	4072	1		
2	multiply by 100 43 → 4300 multiply by 10 790 → 7900	2	Award 1 mark for one correct answer.	
3	$4 \times 90 =$ 360 $4 \times$ 300 =1200	1		Both answers must be correct for 1 mark.
4	Twenty-eight thousand seven hundred and forty-five	1		 Do not accept any part of number name given as digits. Accept numbers written without hyphens. Accept recognisable misspellings.
5	47 532 46 523 46 253 45 732 47 325	1		

Mathematics Stage 4 Paper 1 Mark Scheme

From 2020

Question	Answer	Marks	Part Marks	Guidance
6	У 8	1		Accept any clear indication of the correct answer, e.g. dot or cross.
	7			
	6			
	5			
	4			
	3			
	2			
	1			
	0 1 2 3 4 5 6 7 8 ×			
7	All the numbers are even.	1		
	All the numbers are multiples of 10			
	All the numbers are multiples of 5 \checkmark			
	All the numbers have a 5 in the ones place.			

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Mathematics Stage 4 Paper 1 Mark Scheme

Question	Answer	Mark	Part Marks	Guidance
8	2345 < 2354	1		Both answers must be correct for 1 mark.
	100 hundreds = 10 thousands			
9	Direction from cross (X) treasure (south)	1		Both boxes must be correct for 1 mark.
	lighthouse east			
	volcano southwest			
10	15:40	1		
11	When Ahmed was 1 year old, he was shorter than he is now. In 10 years' time, Ahmed will be younger than he is now. In 10 years' time, Certain	1		Both answers must be correct for 1 mark.

Mathematics Stage 4 Paper 1 Mark Scheme

From 2020

Answer	Marks	Part Marks	Guidance
7 (children)	1		
Class A and Class B	1		
31	1		
	2	Award 1 mark for two correct ticks and none incorrect or for all three correct and one additional wrong tick.	
	7 (children) Class A and Class B Official of the second se	AnswerMarks7 (children)1Class A and Class B1Order of childrenOrder of childrenOrder of childrenOrder of childrenS1Image: Class A and Class BImage: Class A and Class A and Class BImage: Class A and Class BImage: Class A and Class A and Class BImage: Class A and Class BImage: Class A and Class A and Class BImage: Class A and Class BImage: Class A and Class A and Class B <td>AnswerMarksPart Marks7 (children)1Image: constrained by the second by the sec</td>	AnswerMarksPart Marks7 (children)1Image: constrained by the second by the sec

Mathematics Stage 4 Paper 1 Mark Scheme

Question	Answer	Mark	Part Marks	Guidance
15	<u>Mirror</u> line	1		Accept inaccuracies provided the intention is clear.
16	5 × 4 × 10	2	Award 1 mark for two or three lines correct.	Award 2 marks for all four lines correct.
	$5 \times 3 \times 4$ 12×6			
	$5 \times 10 \times 3$ 20 × 10			
	$4 \times 3 \times 6$ 20 × 6			
	$6 \times 4 \times 5$			

Mathematics Stage 4 Paper 1 Mark Scheme

Question	Answer	Mark	Part Marks	Guidance
17		1		Award 1 mark for a rectangle of 8×3 or 6×4
				Accept in either orientation.
	or			
18	$\frac{1}{2}$ $\frac{9}{24}$	1		All three lines must be correct for 1 mark.
	$\frac{1}{4}$ $\frac{12}{24}$			
	$\frac{3}{8}$ $\frac{6}{24}$			
	$\frac{1}{3}$ $\frac{8}{24}$			

Question	Answer	Marks	Part Marks	Guidance
19	176, 671, 716, 761	2	Award 1 mark for three answers correct with none wrong or for all four correct answers and one additional wrong answer.	Accept answers in any order.
20	×3972618149278163	1		All boxes must be correct for 1 mark.
21	13, 14, 15, 16 or 17	1		
22	Days of the week Temperature	2	Award 1 mark for two or three correct temperatures.	All four temperatures correct for 2 marks.
	Monday 37°C			
	Tuesday 32 °C			
	Wednesday 19°C			
	Thursday 32 °C			
	Friday (24 °C)			

Mathematics Stage 4 Paper 1 Mark Scheme

Question	Answer			Marks	Part Marks	Guidance
23		D	F	2	Award 1 mark for two or three correct labels.	Award 2 marks for all four labels correct.
	A	square	rectangle triangle			Accept headings written in full.
	E	circle hexagon	semi-circle			