

Cambridge Primary Sample Test
For use with curriculum published in
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Mathematics Paper 1
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 trailing 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..... m1850..... 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 line30.....cents0.30.....cents 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 30m; 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	thousands <u>thousandths</u> tens tenths units hundred hundredths	1		Accept any clear indication.
2	312(°)	1		Accept answers in the range 310 to 314
3	(20) 21 25 (41) 235 (242)	2	Award 1 mark for two correctly circled or three correctly circled plus one incorrectly circled.	Accept any clear indication.
4	84 (minutes)	1		
5	> >	1		Both required.
6(a)	2	1		Accept 1
6(b)	30 or 60 or 90 or...	1		Accept any multiple of 30
7(a)	10 (%)	1		
7(b)	30 squares shaded	1		Squares must be grouped, e.g. 3 rows of 10, a 5 by 6 block.

Question	Answer	Marks	Part Marks	Guidance						
8		2	Award 1 mark for two correctly matched.							
9	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th data-bbox="296 894 520 976">Could have a right angle</th> <th data-bbox="520 894 745 976">Could have an acute angle</th> <th data-bbox="745 894 970 976">Could tessellate</th> </tr> </thead> <tbody> <tr> <td data-bbox="296 976 520 1084">isosceles scalene</td> <td data-bbox="520 976 745 1084">equilateral isosceles scalene</td> <td data-bbox="745 976 970 1084">equilateral isosceles scalene</td> </tr> </tbody> </table>	Could have a right angle	Could have an acute angle	Could tessellate	isosceles scalene	equilateral isosceles scalene	equilateral isosceles scalene	2	Award 1 mark for any correct column.	Answers in any order within a column. Accept recognisable misspellings.
Could have a right angle	Could have an acute angle	Could tessellate								
isosceles scalene	equilateral isosceles scalene	equilateral isosceles scalene								
10(a)	117.749	1								
10(b)	10.83	1								
11	−13(°C)	1		Do not accept 13– (°C)						

Question	Answer	Marks	Part Marks	Guidance
12(a)	B A	1		Both correct.
12(b)	<p style="text-align: right;">Spinner</p> <p>The chance of spinning a 2 is greater than 25%</p> <p>The chance of spinning an odd number is greater than 50%</p>	2	Award 1 mark for two correct lines and no extra or three correct and one extra.	
13	An explanation demonstrating understanding of correct order of operations.	1		For example: <ul style="list-style-type: none"> • we have to do 2×7 first • Rajiv did not do the multiplication first • he hasn't used BIDMAS • the correct answer is 19
14	Rhombus Trapezium Kite	2	Award 1 mark for two correct shapes.	
15	20	1		

Question	Answer	Marks	Part Marks	Guidance										
16	Yes ticked and An explanation that changes them both to decimals or both to fractions or an explanation that finds the fraction of a quantity e.g. $\frac{3}{5}$ is 0.6 0.4 is $\frac{2}{5}$ $\frac{3}{5}$ of \$1 is 60 cents and 0.4 of \$1 is 40 cents.	1		Accept conversion to percentages. Accept diagrammatic explanations.										
17	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center; padding: 5px;">3.37</td> <td style="text-align: center; padding: 5px;">3.7</td> <td style="text-align: center; padding: 5px;">4.06</td> <td style="text-align: center; padding: 5px;">4.37</td> <td style="text-align: center; padding: 5px;">4.6</td> </tr> <tr> <td style="text-align: center; padding: 5px;">(smallest)</td> <td></td> <td></td> <td></td> <td style="text-align: center; padding: 5px;">(largest)</td> </tr> </table>	3.37	3.7	4.06	4.37	4.6	(smallest)				(largest)	2	Award 1 mark for four numbers in the correct order (cover up and ignore the one value that's in the wrong order) or for reverse order.	
3.37	3.7	4.06	4.37	4.6										
(smallest)				(largest)										
18	$\frac{11}{15}$ accept equivalent fractions	2	Award 1 mark for sight of $\frac{5}{15}$ and $\frac{6}{15}$ allowing an error in one numerator.	For 1 mark accept equivalent fractions with common denominator.										
19 (a)	(-4, 2)	1												
19 (b)	Point plotted at $(3, -2\frac{1}{2})$	1		Accept slight inaccuracies.										

Question	Answer	Marks	Part Marks	Guidance					
20	30.09 (metres)	1		Accept equivalent answers with the correct units.					
21	<table border="1" style="border-collapse: collapse; width: 40px; height: 60px;"> <tr><td style="width: 20px; height: 20px;"></td></tr> <tr><td style="width: 20px; height: 20px;"></td></tr> <tr><td style="width: 20px; height: 20px; text-align: center;">✓</td></tr> <tr><td style="width: 20px; height: 20px; text-align: center;">✓</td></tr> <tr><td style="width: 20px; height: 20px;"></td></tr> </table>			✓	✓		2	Award 1 mark for one correct tick and four blanks or for two correct ticks and one extra tick.	Accept any clear indication.
✓									
✓									
22	79.1 and 79.3	1		Both answers needed for the mark.					
23	20	1							
24	4 scores that have a median of 6 but do not include 6 e.g. 5, 5, 7, 7	1		Accept in any order. Accept scores that are fractions or decimals.					
25	(-3, -4)	1							
26	Naomi and Pierre	2	Award 1 mark for Naomi and no other name or Pierre and no other name or Naomi and Pierre and one other.	Accept recognisable misspellings.					

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