Cambridge Primary Sample Test

For use with curriculum published in September 2020

Mathematics Paper 2
Mark Scheme
Stage 3

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.

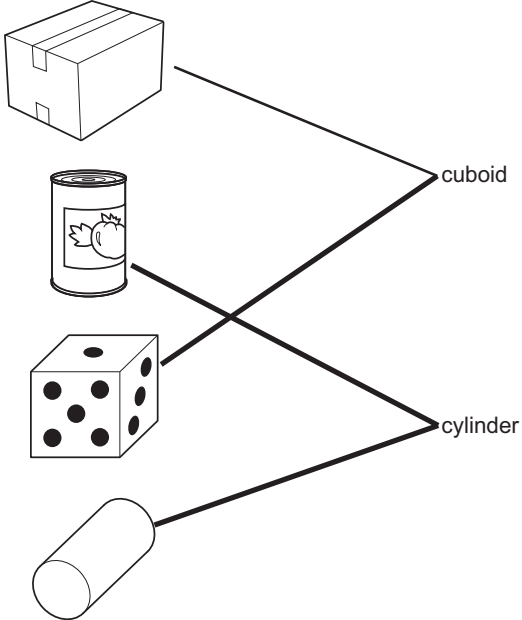|	Accept	Do not accept
If the amount is in dollars and cents, the answer should be given to two decimal places.	$0.30 For an integer number of dollars it is acceptable not to give any decimal places, e.g. $9 or $9.00	$0.3
If units are not given on the answer line	Any unambiguous indication of the correct amount, e.g. 30 cents; 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	......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......c̶e̶n̶t̶s̶

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.
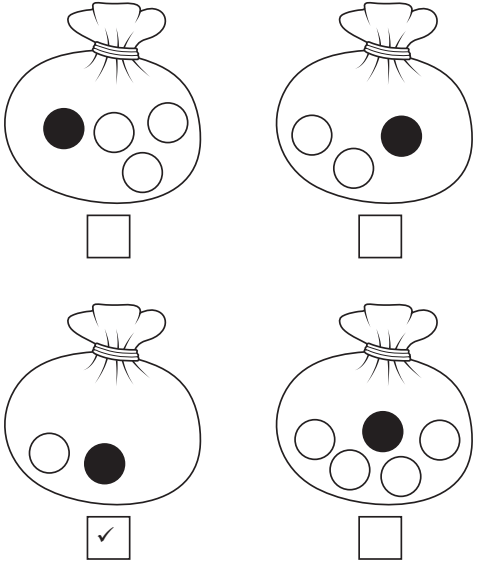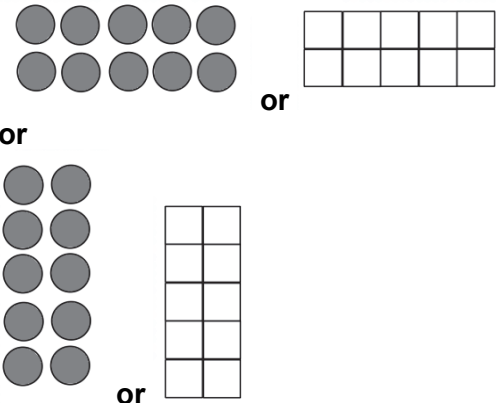
Accept	Do not accept
–2	2–

Question	Answer	Mark	Part Marks	Guidance
1	Six hundred and one	1		**Do not accept** 6 hundred and 1 **Do not accept** six hundreds no tens and one.
2	<table><tr><td>Shorter than a day</td><td>Longer than a day</td></tr><tr><td>**hour**</td><td>(year)</td></tr><tr><td>**minute**</td><td>**month**</td></tr><tr><td></td><td>**week**</td></tr></table>	1		All the units must be included for 1 mark.
3		1		All **three** must be ticked for 1 mark.
4	 mirror line	1		**Accept** inaccuracies in drawing provided the reflection joins to the two points on the mirror line. **Ignore** the size of the reflection.
5	16 (25) (30) 47 (55)	1		All **three** values must be circled for 1 mark.
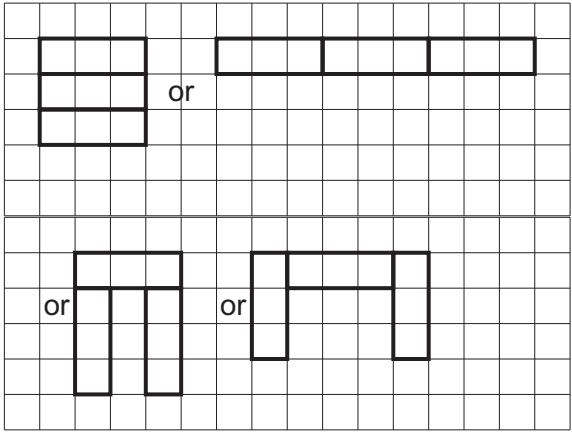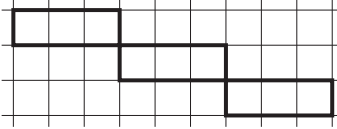
Question	Answer	Mark	Part Marks	Guidance
6	black black	**1**		Both needed for 1 mark.
7	2 hundreds 2 tens 2 ones ✓ 3 hundreds 3 tens ✓ 3 ones 5 hundreds ✓ 5 tens 5 ones	**1**		All **three** must be correct for 1 mark.
8		**1**		All **three** lines correct for 1 mark.

Question	Answer	Mark	Part Marks	Guidance
9	$\dfrac{1}{2}$ $\dfrac{1}{4}$ $\dfrac{1}{5}$ $\dfrac{1}{10}$ largest smallest	1		All **four** in the correct order for 1 mark.
10a	7 (students)	1		
10b	9 (students)	1		
11	364 (animals)	1		
12	700 (g)	1		
13	72 **and** 77	1		Both numbers must be given for 1 mark.
14		1		All **three** lines correct for 1 mark.
15	$\dfrac{1}{5} = \dfrac{4}{\boxed{20}}$	1		
16	84	1		

Question	Answer	Mark	Part Marks	Guidance
17	22 (square units)	**1**		
18	(25) 37 (28) (31) 24 35	**1**		All **three** numbers must be circled and no others for 1 mark.
19	45 ÷ 9 = 5 45 ÷ 5 = 9	**1**		Both correct for 1 mark.
20		**1**		**Accept** any clear indication of the answer.
21	5	**1**		

Question	Answer	Mark	Part Marks	Guidance
22		1		**Accept** any suitable alternative array.
23	3 seconds 30 seconds (3 minutes) 30 minutes	1		**Accept** any clear indication of the answer.
24	<table><tr><td>**Statement**</td><td>**True**</td><td>**False**</td></tr><tr><td>12 + 15 = 15 + 12</td><td>(✓)</td><td></td></tr><tr><td>29 − 7 = 7 − 29</td><td></td><td>✓</td></tr><tr><td>3 + 6 + 11 = 6 + 11 + 3</td><td>✓</td><td></td></tr></table>	1		Both statements correct for 1 mark.
25	An explanation that shows you need to add all 4 sides of the shape, e.g. 'He needs to add all 4 sides' or 'He needs to double his answer'	1		**Accept** 'the perimeter is 18 cm'.

Question	Answer	Mark	Part Marks	Guidance
26		1		**Accept** any other shape with a total area of 9 squares. **Do not accept** shapes joined at a vertex. e.g,
27	An explanation that shows the cylinder has: • no/few vertices • fewest number of edges • fewest number of faces • a circular face / circle • a curved face e.g. 'It has no vertices' or 'it has a circular face'	1		
28	1 dollar 30 cents	2	Award 1 mark for a correct method containing any number of arithmetic errors, e.g. 5 – 2 = answer answer x 100 – 60 – 10 **or** 500 – 260 – 110 = Award 1 mark for sight of 130 **or** 1.3(0) with no units.	**Accept** ($)1.30

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