



Cambridge Assessment
International Education

Cambridge Primary Progression Test

Mathematics 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 aren't 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.185cm..... 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 30 m; 02 h 30 m	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)
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	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-

Stage 6 Paper 1 Mark scheme

Question	1		
Part	Mark	Answer	Further Information
	1		All three lines must be correct for the award of the mark.
Total	1		

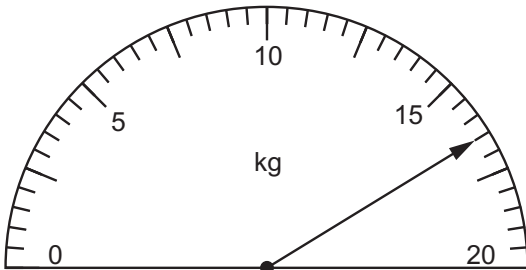
Question	2		
Part	Mark	Answer	Further Information
	1		Accept slight inaccuracies in the drawing provided the intention is clear.
Total	1		

Question	3												
Part	Mark	Answer	Further Information										
	2	<table border="1"> <tr> <td>9810</td> <td>9018</td> </tr> <tr> <td>Half a million</td> <td>84 291</td> </tr> <tr> <td>Fifteen thousand and seven</td> <td>15 060</td> </tr> <tr> <td>25</td> <td>-52</td> </tr> <tr> <td>-271</td> <td>-326</td> </tr> </table>	9810	9018	Half a million	84 291	Fifteen thousand and seven	15 060	25	-52	-271	-326	Award 1 mark for any 3 correct.
9810	9018												
Half a million	84 291												
Fifteen thousand and seven	15 060												
25	-52												
-271	-326												
Total	2												

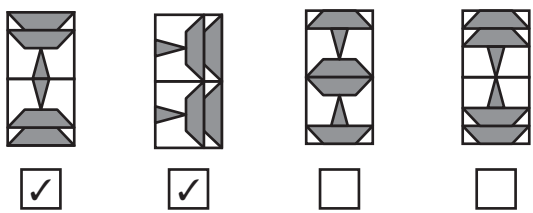
Question	4		
Part	Mark	Answer	Further Information
	1	Three hundredths	Do not accept hundredths alone. Condone $\frac{3}{100}$.
Total	1		

Question	5		
Part	Mark	Answer	Further Information
	1	(\$)24.18	
Total	1		

Question	6		
Part	Mark	Answer	Further Information
	1	1.085 (m)	
Total	1		

Question	7		
Part	Mark	Answer	Further Information
	1	<p>Arrow drawn to 16.5, as shown:</p> 	The arrow does not have to touch the scale if the intention is clear.
Total	1		

Question	8		
Part	Mark	Answer	Further Information
	1	Manjit	Condone 14.5 (seconds).
Total	1		

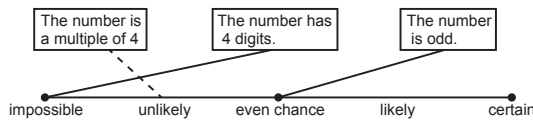
Question	9		
Part	Mark	Answer	Further Information
	1		Both boxes ticked with no extras.
Total	1		

Question	10		
Part	Mark	Answer	Further Information
	1	1000	
Total	1		

Question	11		
Part	Mark	Answer	Further Information
(a)	1	8 am or equivalent	Do not accept 8:00 or eight o'clock unless morning is clear.
(b)	1	3 pm or equivalent	Do not accept 3:00 or three o'clock unless afternoon is clear.
Total	2		

Question	12		
Part	Mark	Answer	Further Information
	1	270 5.5	Both answers must be correct for the award of the mark.
Total	1		

Question	13		
Part	Mark	Answer	Further Information
	2	$\boxed{1} \quad \frac{7}{10} = \frac{17}{10}$ $\boxed{3} \quad \frac{2}{5} = \frac{17}{5}$	$2\frac{1}{4} = \frac{\boxed{9}}{4}$ $3\frac{1}{2} = \frac{\boxed{7}}{2}$ <p>Award 2 marks for 3 correct answers.</p> <p>Award 1 mark for 2 correct answers.</p>
Total	2		

Question	14		
Part	Mark	Answer	Further Information
	1		Both lines must be drawn for the mark.
Total	1		

Question	15		
Part	Mark	Answer	Further Information
	1	1500 and 20 000	
Total	1		

Question	16		
Part	Mark	Answer	Further Information
	1	(\$) 14	
Total	1		

Question	17		
Part	Mark	Answer	Further Information
	2	Rajiv, Hassan and Youssef	<p>Award 2 marks for 3 correct answers with no incorrect answers.</p> <p>Award 1 mark for 2 correct answers with no more than 1 extra.</p>
Total	2		

Question	18		
Part	Mark	Answer	Further Information
(a)	1	10:47	
(b)	1	13:02	Do not accept 1.02 pm. Accept follow through from part (a).
Total	2		

Question	19																	
Part	Mark	Answer	Further Information															
	2	<table border="1"> <tr> <td>×</td> <td>0.3</td> <td>0.1</td> <td>0.6</td> <td>0.4</td> </tr> <tr> <td>7</td> <td>2.1</td> <td>0.7</td> <td>4.2</td> <td>2.8</td> </tr> <tr> <td>4</td> <td>1.2</td> <td>0.4</td> <td>2.4</td> <td>1.6</td> </tr> </table>	×	0.3	0.1	0.6	0.4	7	2.1	0.7	4.2	2.8	4	1.2	0.4	2.4	1.6	Award 1 mark for 2 or 3 correct answers.
×	0.3	0.1	0.6	0.4														
7	2.1	0.7	4.2	2.8														
4	1.2	0.4	2.4	1.6														
Total	2																	

Question	20		
Part	Mark	Answer	Further Information
	2	255 and -45	Do not accept 45-. Award 1 mark for 1 correct answer.
Total	2		

Question	21		
Part	Mark	Answer	Further Information
(a)	1	33(°)	Allow 32°–34°.
(b)	1	158(°)	
Total	2		

Question	22		
Part	Mark	Answer	Further Information
	1	$ \begin{array}{r} 3 \cdot \boxed{5} \ 8 \\ + \boxed{2} \cdot 0 \ \boxed{5} \\ \hline 5 \cdot 6 \ 3 \end{array} $	
Total	1		

Question	23		
Part	Mark	Answer	Further Information
(a)	1	7450.3	
(b)	1	603.19	
Total	2		

Question	24		
Part	Mark	Answer	Further Information
	1	<p>Explanations that show 26 must be subtracted from 390, e.g.:</p> $26 \times 14 = (26 \times 15) - 26$ <p>or</p> $390 - 26$ <p>The answer of 364 is not necessary.</p>	<p>Do not accept 364 without a correct explanation.</p> <p>Do not accept an answer that only carries out the long multiplication 26×14 with no reference to $26 \times 15 = 390$.</p>
Total	1		

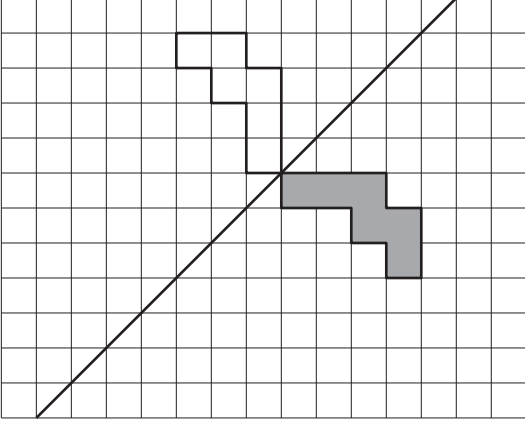
Question	25		
Part	Mark	Answer	Further Information
	1	$0.57 \quad \frac{3}{5} \quad 0.65 \quad \frac{2}{3}$	<p>All 4 answers must be in the correct order for 1 mark.</p> <p>Accept alternative indications, e.g. decimals: $0.57 \quad 0.6 \quad 0.65 \quad 0.67$</p> <p>Condone $0.66(\dots)$ for $\frac{2}{3}$.</p>
Total	1		

Question	26		
Part	Mark	Answer	Further Information
	2	6, 6 and 9	Award 1 mark for three numbers with a mode of 6 or 3 numbers that total 21.
Total	2		

Question	27		
Part	Mark	Answer	Further Information
	1	<p>No and shows a calculation demonstrating that the two fractions are equivalent, e.g.</p> $\begin{array}{ccc} \times 2 & & \div 2 \\ \begin{array}{c} \downarrow \\ \frac{3}{4} = \frac{6}{8} \\ \uparrow \end{array} & \text{or} & \begin{array}{c} \downarrow \\ \frac{6}{8} = \frac{3}{4} \\ \uparrow \end{array} \\ \times 2 & & \div 2 \end{array}$ <p>or</p> <p>shows $\frac{3}{4}$ and $\frac{6}{8}$ of the same quantity, e.g. $\frac{3}{4}$ of 40 is 30 and $\frac{6}{8}$ of 40 is 30.</p>	Do not accept an incorrect calculation, for example $\frac{3}{4} \times 2 = \frac{6}{8}$
Total	1		

Question	28		
Part	Mark	Answer	Further Information
	1	3.7	
Total	1		

Question	29		
Part	Mark	Answer	Further Information
	1	$1\frac{3}{5}$ or 1.6 (pizza)	Condone $\frac{8}{5}$.
Total	1		

Question	30		
Part	Mark	Answer	Further Information
	1		Accept slight inaccuracies in the drawing provided the intention is clear.
Total	1		

Stage 6 Paper 2 Mark scheme

Question	1		
Part	Mark	Answer	Further Information
	1	60 or 90 or 120, ... etc.	Answer must be clearly identified. Accept the same correct number greater than 50 that is written at the end of both sequences.
Total	1		

Question	2		
Part	Mark	Answer	Further Information
	1	30 or 31 (cm)	
Total	1		

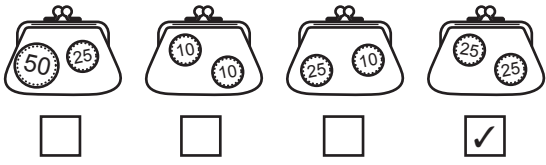
Question	3		
Part	Mark	Answer	Further Information
	1	25	
Total	1		

Question	4		
Part	Mark	Answer	Further Information
	1	<p> 20% — $\frac{1}{4}$ 25% — $\frac{1}{5}$ 30% — $\frac{35}{100}$ 35% — $\frac{3}{10}$ </p>	All lines must be correct for the award of the mark.
Total	1		

Question	5		
Part	Mark	Answer	Further Information
	2	3000, 3100, 13 100	Award 1 mark for any 2 correct answers.
Total	2		

Question	6		
Part	Mark	Answer	Further Information
	1	15 cm ² (20 cm ²) 25 cm ² 30 cm ² 35 cm ²	
Total	1		

Question	7														
Part	Mark	Answer	Further Information												
(a)	1	<table border="1"> <thead> <tr> <th></th> <th>Less than 0.6</th> <th>Greater than 0.6</th> </tr> </thead> <tbody> <tr> <td>$\frac{1}{6}$</td> <td style="text-align: center;">✓</td> <td></td> </tr> <tr> <td>$\frac{4}{7}$</td> <td style="text-align: center;">✓</td> <td></td> </tr> <tr> <td>$\frac{8}{13}$</td> <td></td> <td style="text-align: center;">✓</td> </tr> </tbody> </table>		Less than 0.6	Greater than 0.6	$\frac{1}{6}$	✓		$\frac{4}{7}$	✓		$\frac{8}{13}$		✓	Award 1 mark for both ticks.
	Less than 0.6	Greater than 0.6													
$\frac{1}{6}$	✓														
$\frac{4}{7}$	✓														
$\frac{8}{13}$		✓													
(b)	1	5.375													
Total	2														

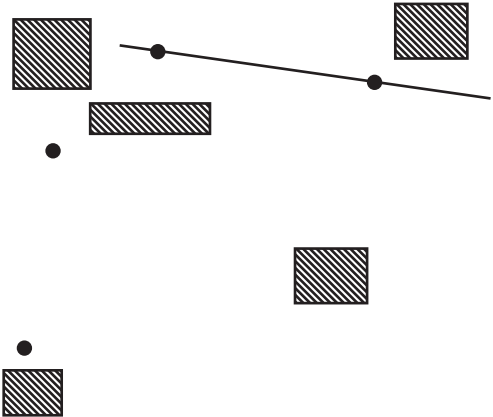
Question	8		
Part	Mark	Answer	Further Information
	1		
Total	1		

Question	9		
Part	Mark	Answer	Further Information
(a)	1	(3, -3)	
(b)	1	20 (cm)	
Total	2		

Question	10		
Part	Mark	Answer	Further Information
	1	3500	Accept any answer in the range 3000–4000. Accept answers on the diagram.
Total	1		

Question	11		
Part	Mark	Answer	Further Information
	1	30 and 80 80 and 30	Pairs can be given in either order.
Total	1		

Question	12		
Part	Mark	Answer	Further Information
	1	$\boxed{6} \cdot \boxed{4} - 2.9 = \boxed{3} \cdot \boxed{5}$	All digits must be correct for the award of the mark.
Total	1		

Question	13		
Part	Mark	Answer	Further Information
	1		<p>Line must pass through these two points.</p> <p>Accept lines that measure 66–70 mm.</p>
Total	1		

Question	14		
Part	Mark	Answer	Further Information
	1	Prime numbers	Accept prime.
Total	1		

Question	15		
Part	Mark	Answer	Further Information
	1	9 and 7 or 7 and 9 or 21 and 3 or 63 and 1	
Total	1		

Question	16		
Part	Mark	Answer	Further Information
	2		<p>Award 2 marks for all 3 pairs ringed.</p> <p>Award 1 mark for 2 pairs.</p> <p>Accept any clear indication of answers.</p>
Total	2		

Question	17		
Part	Mark	Answer	Further Information
	1	$10\frac{1}{2}$ or 10.5	Do not accept $9\frac{3}{2}$.
Total	1		

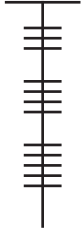
Question	18		
Part	Mark	Answer	Further Information
(a)	1	-150 (°C)	<p>Accept between -145 (°C) and -155 (°C).</p> <p>Do not accept 150.</p>
(b)	1	Mercury and Jupiter	Either order
Total	2		

Question	19		
Part	Mark	Answer	Further Information
	1	< =	Both parts must be correct for the award of the mark.
Total	1		

Question	20		
Part	Mark	Answer	Further Information
(a)	1	18	
(b)	1	16	
Total	2		

Question	21		
Part	Mark	Answer	Further Information
(a)	1	Trapezium or trapezoid	The name must be given. Accept recognisable misspellings. Do not accept quadrilateral.
(b)	1	Rhombus	The name must be given. Accept recognisable misspellings. Do not accept square or quadrilateral or diamond.
Total	2		

Question	22		
Part	Mark	Answer	Further Information
(a)	1	Bar drawn to represent 18 birds between 3 pm and 4 pm	Condone slight inaccuracies provided intention is clear.
(b)	1	Yes and explanation equivalent to: <ul style="list-style-type: none"> Because there are 12 birds between 11 am and 12 pm and 24 between 1 pm and 2 pm. The second bar is twice as high. 	Do not award the mark if no explanation is given. Do not accept explanation that just repeats information given in the question, e.g. it is double.
Total	2		

Question	23		
Part	Mark	Answer	Further Information
(a)	1		The number of 'knots' is 3, 4, 5, starting at the top of the 'string'.
(b)	1	601 in answer box	
Total	2		

Question	24		
Part	Mark	Answer	Further Information
(a)	1	5 (pieces)	Do not allow 5.7 or $5\frac{1}{2}$ etc.
(b)	1	25 (cm)	Allow 0.25 m. Allow a follow-through mark if $200 - 35 \times (a) = (b)$ where (a) is a whole number, provided their answer to (b) is less than 35.
Total	2		

Question	25		
Part	Mark	Answer	Further Information
	1	75	
Total	1		

Question	26		
Part	Mark	Answer	Further Information
	1	Square (based) pyramid	Do not accept pyramid. Accept any recognisable misspelling.
Total	1		

Question	27		
Part	Mark	Answer	Further Information
	2	10.48 (seconds)	Award 1 mark for evidence of a complete correct method, e.g. <ul style="list-style-type: none"> • $43.7 - 33.22$ • $43.7 - 9.87 - 12.05 - 11.3$
Total	2		

Question	28		
Part	Mark	Answer	Further Information
	1	B and C	
Total	1		

Question	29		
Part	Mark	Answer	Further Information
	1	No and an explanation that cylinder A contains more than 250 ml of liquid but cylinder B has less than 250 ml of liquid	Do not award a mark for 'no' without an explanation. Accept explanations that correctly evaluate the amount of liquid in each cylinder, e.g. Cylinder A contains more than 250 ml and cylinder B contains approximately 225 ml. Do not accept an explanation that states the amounts are equal or an explanation that states that A has more than B without evaluating the amounts.
Total	1		

Stage 6 Paper 3 Mark scheme

Question	Mark	Answer	Further information
1	1	0.6	
2	1	5	Accept 10 r 5.
3	1	5.2	
4	1	9 (edges)	
5	1	09:30	
6	1	750 (ml)	
7	1	620	
8	1	3.5	
9	1	1200	
10	1	2211	
11	1	11	Do not accept -11.
12	1	2.88	
13	1	4.8	
14	1	50° 90° 130° 170°	
15	1	7 or 26	
16	1	(\$)2.50	
17	1	27 (months)	
18	1	77 (cm ²)	
19	1	(1, -4)	
20	1	35	

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