



**Cambridge Assessment**  
International Education

# **Cambridge Primary Progression Test**

## **Mathematics 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 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. <b>.675</b>
Accept trailing zeros, unless the question has asked for a specific number of decimal places, e.g. <b>0.7000</b>
Accept a comma as a decimal point if that is the convention that you have taught the learners, e.g. <b>0,638</b>

### 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..... 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..... <b>unless</b> 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 <b>unless</b> 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 <b>unless</b> 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

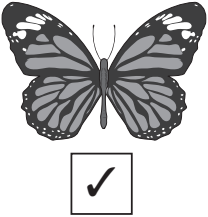
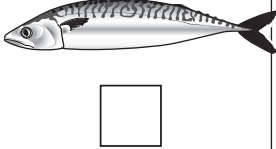
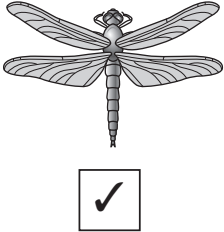
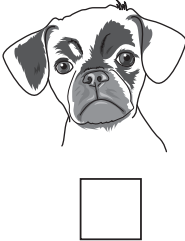
## Negative numbers

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

Accept	Do not accept
$-2$	2-

## Stage 4 Paper 1 Mark scheme

Question	1		
Part	Mark	Answer	Further Information
	1	7204	
<b>Total</b>	<b>1</b>		

Question	2		
Part	Mark	Answer	Further Information
	1	   	
<b>Total</b>	<b>1</b>		

Question	3		
Part	Mark	Answer	Further Information
	1	550	Accept any number between 540 and 560.
<b>Total</b>	<b>1</b>		

Question	4		
Part	Mark	Answer	Further Information
	1		Both lines are required, with no additional lines, for the award of the mark.
<b>Total</b>	<b>1</b>		

Question	5		
Part	Mark	Answer	Further Information
	1	200	
<b>Total</b>	<b>1</b>		

Question	6		
Part	Mark	Answer	Further Information
	1	107	
<b>Total</b>	<b>1</b>		

Question	7														
Part	Mark	Answer	Further Information												
	2	<table border="1"> <thead> <tr> <th>Direction</th> <th>Distance</th> </tr> </thead> <tbody> <tr> <td>South</td> <td>1 square</td> </tr> <tr> <td>West</td> <td>3 (squares)</td> </tr> <tr> <td>South</td> <td>3 (squares)</td> </tr> <tr> <td>East</td> <td>2 (squares)</td> </tr> <tr> <td>South</td> <td>1 (square)</td> </tr> </tbody> </table>	Direction	Distance	South	1 square	West	3 (squares)	South	3 (squares)	East	2 (squares)	South	1 (square)	Award 1 mark for each <b>column</b> that is correct <b>or</b> for 3 correct additional rows.
Direction	Distance														
South	1 square														
West	3 (squares)														
South	3 (squares)														
East	2 (squares)														
South	1 (square)														
<b>Total</b>	<b>2</b>														

Question	8		
Part	Mark	Answer	Further Information
	1	$\frac{1}{2}$ or $\frac{5}{10}$ and 0.5	
<b>Total</b>	<b>1</b>		

Question	9		
Part	Mark	Answer	Further Information
(a)	1	59	
(b)	1	Subtract 8	Accept an equivalent statement.
<b>Total</b>	<b>2</b>		

Question	10		
Part	Mark	Answer	Further Information
	1	Any 3 rectangles shaded	
<b>Total</b>	<b>1</b>		

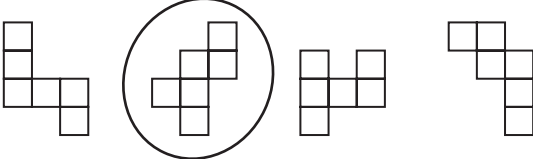
Question	11		
Part	Mark	Answer	Further Information
	2	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>Shape</p> </div> <div style="text-align: center;"> <p>Area</p> </div> </div>	Award 1 mark for any 2 correct lines.
<b>Total</b>	<b>2</b>		

Question	12		
Part	Mark	Answer	Further Information
	1		Note that 1 and 5 are interchangeable.
<b>Total</b>	<b>1</b>		

Question	13																		
Part	Mark	Answer	Further Information																
	2	<table border="1"> <tbody> <tr> <td>×</td> <td>3</td> <td>6</td> <td>4</td> </tr> <tr> <td>2</td> <td>6</td> <td>12</td> <td>8</td> </tr> <tr> <td>5</td> <td>15</td> <td>30</td> <td>20</td> </tr> <tr> <td>9</td> <td>27</td> <td>54</td> <td>36</td> </tr> </tbody> </table>	×	3	6	4	2	6	12	8	5	15	30	20	9	27	54	36	<p>All 5 boxes must be correct for 2 marks.</p> <p>Accept 3 or 4 correct boxes for 1 mark.</p>
×	3	6	4																
2	6	12	8																
5	15	30	20																
9	27	54	36																
<b>Total</b>	<b>2</b>																		

Question	14											
Part	Mark	Answer	Further Information									
	2	<table border="1"> <thead> <tr> <th></th> <th>Cycle to school</th> <th>Do not cycle to school</th> </tr> </thead> <tbody> <tr> <td>Boys</td> <td>9</td> <td>9</td> </tr> <tr> <td>Not boys</td> <td>0</td> <td>11</td> </tr> </tbody> </table>		Cycle to school	Do not cycle to school	Boys	9	9	Not boys	0	11	<p>All 4 numbers must be in the correct section of the diagram to get 2 marks.</p> <p>For 1 mark, 2 or 3 of the numbers should be in the correct place.</p> <p>Accept numbers positioned anywhere within the correct section.</p>
	Cycle to school	Do not cycle to school										
Boys	9	9										
Not boys	0	11										
<b>Total</b>	<b>2</b>											



Question	15		
Part	Mark	Answer	Further Information
	1		
<b>Total</b>	<b>1</b>		

Question	16		
Part	Mark	Answer	Further Information
	1	$\frac{\boxed{2}}{\boxed{4}} = \boxed{0}.\boxed{5}$ <p>or</p> $\frac{\boxed{2}}{\boxed{5}} = \boxed{0}.\boxed{4}$	
<b>Total</b>	<b>1</b>		

Question	17		
Part	Mark	Answer	Further Information
	1	5 (metres and) 40 (centimetres)	Do not accept 540 (centimetres) or 5.4 (metres).
<b>Total</b>	<b>1</b>		

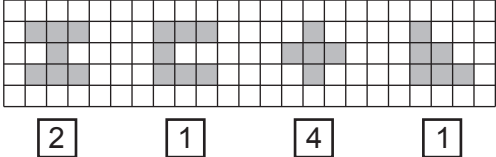
Question	18					
Part	Mark	Answer	Further Information			
	1	<table border="1" style="border-collapse: collapse; width: 150px;"> <tr><td style="padding: 2px;">Rajiv</td></tr> <tr><td style="padding: 2px;">Ahmed</td></tr> <tr><td style="padding: 2px;">Chen</td></tr> </table>	Rajiv	Ahmed	Chen	
Rajiv						
Ahmed						
Chen						
<b>Total</b>	<b>1</b>					

Question	19		
Part	Mark	Answer	Further Information
	2	$\boxed{4} \boxed{2} \boxed{1} - \boxed{1} \boxed{8} \boxed{7} = 234$	<p>Award 2 marks for all 4 digits correct.</p> <p>Award 1 mark for correctly placing 7 in the units box.</p>
<b>Total</b>	<b>2</b>		

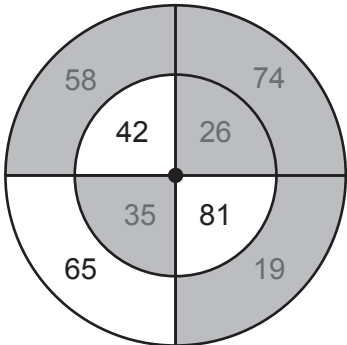
## Stage 4 Paper 2 Mark scheme

Question	1																	
Part	Mark	Answer	Further Information															
(a)	1	<table border="1"> <thead> <tr> <th>Colour</th> <th>Tally</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>Pink</td> <td></td> <td>6</td> </tr> <tr> <td>Blue</td> <td>⏏ III</td> <td></td> </tr> <tr> <td>Red</td> <td></td> <td>4</td> </tr> <tr> <td>Green</td> <td></td> <td></td> </tr> </tbody> </table>	Colour	Tally	Frequency	Pink		6	Blue	⏏ III		Red		4	Green			<p>All three correct for the mark.</p> <p>Do not accept IIIII for ⏏</p>
Colour	Tally	Frequency																
Pink		6																
Blue	⏏ III																	
Red		4																
Green																		
(b)	1	<p>Number of children</p> <p>Colours</p>	<p>Both bars for red and green drawn correctly to gain the mark.</p> <p>Follow-through from an incorrect red frequency in (a).</p>															
<b>Total</b>	<b>2</b>																	

Question	2											
Part	Mark	Answer	Further Information									
	1	<table style="width: 100%; text-align: center;"> <tr> <td>2370</td> <td>&lt;</td> <td>2730</td> </tr> <tr> <td>3006</td> <td>&lt;</td> <td>3100</td> </tr> <tr> <td>4321</td> <td>&gt;</td> <td>4312</td> </tr> </table>	2370	<	2730	3006	<	3100	4321	>	4312	
2370	<	2730										
3006	<	3100										
4321	>	4312										
<b>Total</b>	<b>1</b>											

Question	3		
Part	Mark	Answer	Further Information
	2		<p>Award 2 marks for all 4 answers correct.</p> <p>Award 1 mark for 2 or 3 answers correct.</p>
<b>Total</b>	<b>2</b>		

Question	4		
Part	Mark	Answer	Further Information
	1	C and E in either order	
<b>Total</b>	<b>1</b>		

Question	5		
Part	Mark	Answer	Further Information
	1		
<b>Total</b>	<b>1</b>		

Question	6												
Part	Mark	Answer	Further Information										
	2	<table border="1" data-bbox="466 1675 710 1937"> <thead> <tr> <th>IN</th> <th>OUT</th> </tr> </thead> <tbody> <tr> <td>17</td> <td>34</td> </tr> <tr> <td>26</td> <td>52</td> </tr> <tr> <td>370</td> <td>740</td> </tr> <tr> <td>600</td> <td>1200</td> </tr> </tbody> </table>	IN	OUT	17	34	26	52	370	740	600	1200	<p>All 3 answers must be correct for 2 marks.</p> <p>Award 1 mark for any 2 correct answers.</p>
IN	OUT												
17	34												
26	52												
370	740												
600	1200												
<b>Total</b>	<b>2</b>												

Question	7		
Part	Mark	Answer	Further Information
	1	$602 - 99$ <input type="checkbox"/> $905 - 396$ <input type="checkbox"/> $704 - 297$ <input type="checkbox"/> $806 - 198$ <input checked="" type="checkbox"/>	
<b>Total</b>	<b>1</b>		

Question	8		
Part	Mark	Answer	Further Information
	1	$\frac{5}{10}$ and $\frac{4}{8}$	Both correct for the mark.
<b>Total</b>	<b>1</b>		

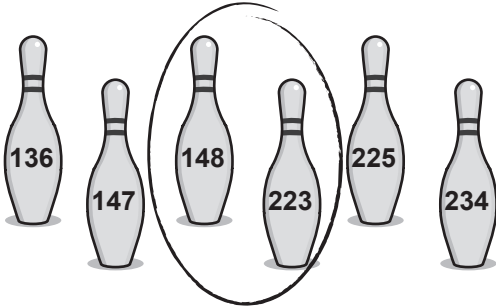
Question	9		
Part	Mark	Answer	Further Information
	1	15 (cm <sup>2</sup> )	
<b>Total</b>	<b>1</b>		

Question	10		
Part	Mark	Answer	Further Information
(a)	1	$\frac{2}{3}$	Accept equivalent fractions.
(b)	1	$\frac{2}{5}$	Accept equivalent fractions.
<b>Total</b>	<b>2</b>		

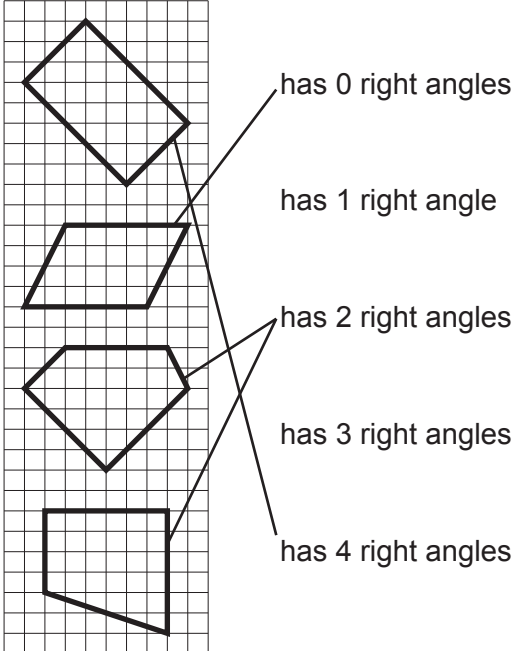
Question	11		
Part	Mark	Answer	Further Information
	1	6217	Accept answer written in the boxes.
<b>Total</b>	<b>1</b>		

Question	12		
Part	Mark	Answer	Further Information
(a)	1	12th	Accept 12 12 February or equivalent
(b)	1	25th	Accept 25 25 January or equivalent
<b>Total</b>	<b>2</b>		

Question	13		
Part	Mark	Answer	Further Information
	1	$\begin{array}{ c c } \hline 8 & 0 \\ \hline \end{array} \times \begin{array}{ c } \hline 4 \\ \hline \end{array} = \begin{array}{ c c c } \hline 3 & 2 & 0 \\ \hline \end{array}$ <p>or</p> $\begin{array}{ c c } \hline 4 & 0 \\ \hline \end{array} \times \begin{array}{ c } \hline 8 \\ \hline \end{array} = \begin{array}{ c c c } \hline 3 & 2 & 0 \\ \hline \end{array}$	
<b>Total</b>	<b>1</b>		

Question	14		
Part	Mark	Answer	Further Information
	1		
<b>Total</b>	<b>1</b>		

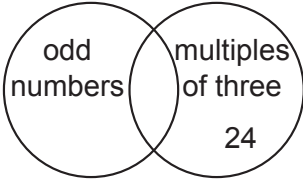
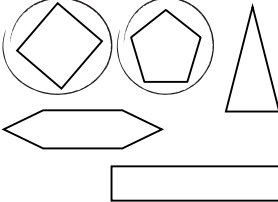
Question	15		
Part	Mark	Answer	Further Information
	1	90 (centimetres)	
<b>Total</b>	<b>1</b>		

Question	16		
Part	Mark	Answer	Further Information
	2	 <p>has 0 right angles</p> <p>has 1 right angle</p> <p>has 2 right angles</p> <p>has 3 right angles</p> <p>has 4 right angles</p>	Accept any 3 correct lines for 1 mark.
<b>Total</b>	<b>2</b>		

Question	17		
Part	Mark	Answer	Further Information
	1	-90	
<b>Total</b>	<b>1</b>		

Question	18			
Part	Mark	Answer		Further Information
	2	<b>Student</b>	<b>Example or cross (x)</b>	Award 1 mark for two or three correct rows.  If all rows are crossed award 0 marks.
		Jamila	x	
		Aiko	Any correct example of 3 even numbers that add to give 20, e.g. $2 + 4 + 14 = 20$	
		Manjit	Any correct example of 2 odd numbers and 1 even number that add to give 20, e.g. $1 + 3 + 16 = 20$	
		Blessy	x	
<b>Total</b>	<b>2</b>			

## Stage 4 Paper 3 Mark scheme

Question	Mark	Answer	Further Information
1	1	32	
2	1	748 (cents)	
3	1	1350	
4	1	350	
5	1	$3\frac{1}{4}$	
6	1	1000 (metres)	
7	1	-6 (°C)	Do not accept 6-.
8	1	14 26 34 (36)	
9	1	250 (pages)	
10	1		
11	1	6	
12	1	45(°)	
13	1	7	
14	1	326 (stickers)	
15	1		
16	1	166	
17	1	450 (mL)	Accept answers between 440 and 460 mL.
18	1	China (Australia) United States France	
19	1	9 (cm)	
20	1	11.09 am	

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