Cambridge Assessment International Education

Cambridge Primary Checkpoint

MATHEMATICS **0096/02**

Paper 2 **October 2023**

MARK SCHEME

Maximum Mark: 40

Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Markers were instructed to award marks. It does not indicate the details of the discussions that took place at a Markers' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the End of Series Report. Cambridge will not enter into discussions about these mark schemes.

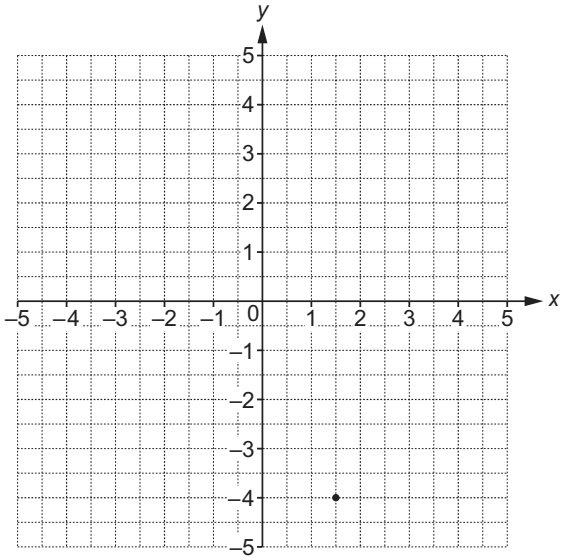
IB23 10_0096_02/7RP

Mark scheme annotations and abbreviations

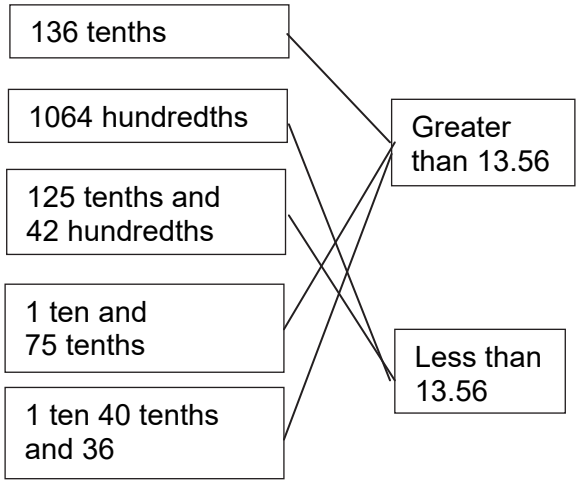
FT	follow through after error
SC	special case mark
cao	correct answer only
dep	dependent
isw	ignore subsequent working
nfww	not from wrong working
oe	or equivalent
soi	seen or implied

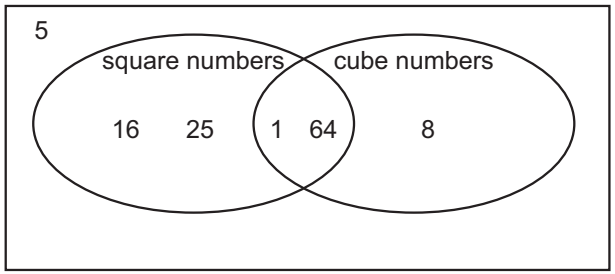
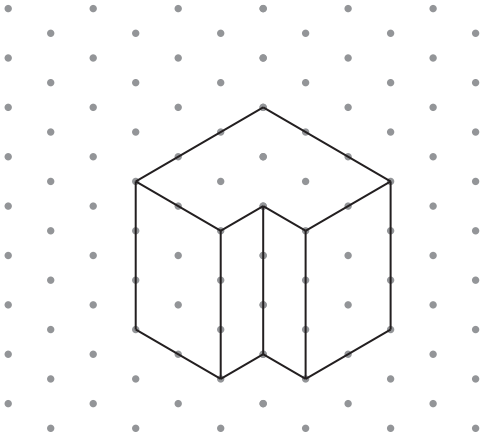
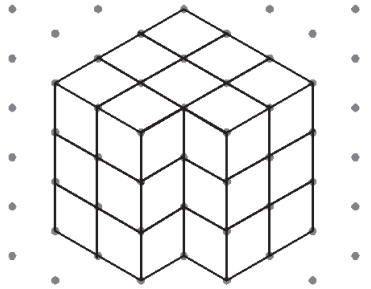
<table>
<tr><th>Question</th><th>Answer</th><th>Marks</th><th>Part Marks</th><th>Guidance</th></tr>
<tr><td>1</td><td>138 (minutes)</td><td>1</td><td></td><td></td></tr>
<tr><td>2</td><td>2 ÷ 5 is $\frac{2}{5}$</td><td>1</td><td></td><td>Both numbers in the correct order for the mark.
Accept equivalent answers.</td></tr>
<tr><td>3</td><td>Equilateral triangle</td><td>1</td><td></td><td>Accept recognisable misspellings.
Do not accept
• Triangle (on its own)
• Equilateral (on its own)
• A sketch (on its own).</td></tr>
<tr><td>4</td><td>☑
☐
☑
☐</td><td>1</td><td></td><td>Both answers correct.
Accept any clear indication.</td></tr>
<tr><td>5</td><td>A circle of radius 4 cm correctly drawn.</td><td>1</td><td></td><td>Accept slight inaccuracies provided the intention is clear.

Accept radius in range 3.8 – 4.2 cm inclusive.</td></tr>
<tr><td>6</td><td><table><tr><th>Fraction</th><th>Decimal</th><th>Percentage</th></tr><tr><td>$\left(1\frac{1}{5}\right)$</td><td>1.2</td><td>120%</td></tr><tr><td>$\frac{\mathbf{3}}{\mathbf{10}}$ oe</td><td>0.3</td><td>(30%)</td></tr><tr><td>$\frac{\mathbf{54}}{\mathbf{100}}$ oe</td><td>(0.54)</td><td>54%</td></tr></table></td><td>2</td><td>Award 1 mark for three or more correct answers.</td><td>Accept equivalent fractions.
Accept percentage signs missing in final column.</td></tr>
</table>

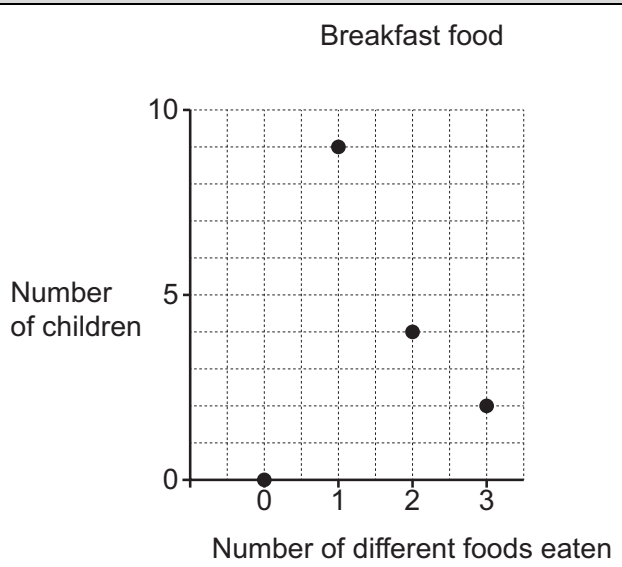
Question	Answer	Marks	Part Marks	Guidance
7(a)	(−3, 2)	**1**		Do **not** accept (3−, 2)
7(b)	Point correctly marked at $(\frac{3}{2}, -4)$.  	**1**		Accept the point plotted close to (1.5, −4) provided the intention is clear. Do **not** accept a point that is 2 mm away for this question.
8(a)	Any multiple of 36 e.g. 36	**1**		Accept if more than one correct answer is given with no incorrect answers.
8(b)	1 **or** 2 **or** 3 **or** 6	**1**		Accept if more than one correct answer is given with no incorrect answers.

Question	Answer	Marks	Part Marks	Guidance
9	☐ ☐ ✓ ☐	**1**		Accept any clear indication.
10	$\frac{11}{12}$ oe	**1**		Accept any equivalent fractions.
11	✓ ☐ ✓ ✓	**1**		All **three** answers correct. Accept any clear indication.
12	thousandths	**1**		Accept recognisable misspellings. Do **not** accept thousands. Do **not** accept $\frac{1}{1000}$ or other numbers.
13	–7 **and** –49	**1**		Both answers correct for the mark. Accept any clear indication.

Question	Answer	Marks	Part Marks	Guidance
14		**2**	Award 1 mark for **three** or **four** correct lines.	
15(a)	9 cao	**1**		
15(b)	180 (weeks)	**1**		
16	kite	**1**		Accept any clear indication.
17	72	**1**		

Question	Answer	Marks	Part Marks	Guidance
18		**2**	Award 1 mark for **four** or **five** numbers in correct position.	Do **not** accept repeated numbers. Ignore any additional numbers.
19		**1**		All lines must be shown to define the shape. Accept any lines that reference the smaller cubes, i.e. any of  Do **not** accept any additional lines except those referencing the smaller cubes. Accept slight inaccuracies provided the intention is clear.

Question	Answer	Marks	Part Marks	Guidance
20	Accept any correct explanation, e.g. • All the bags could have a different mass and each would need its own bar. • Any answer that refers to there being 30 bags/bars which would make the bar chart too large [therefore not the best representation of the data]. • Bar charts are used to display data that can be counted. • The data would be better shown in a line graph or a frequency diagram. • The data would need to be grouped to be shown on a bar chart. • Bar charts are not used to display data that is measured [unless it is grouped]. • Bar charts are usually used for discrete data.	**1**		
21	4.4	**1**		Accept any clear indication.

Question	Answer	Marks	Part Marks	Guidance
22		**2**	Award 1 mark for **one** or more correct dots.	Accept if all or any dots up to the maximum are plotted for each different number of foods.
23	A	**1**		
24	1	**1**		
25	length 14 (cm) width 2 (cm) **or** length 8 (cm) width 2 (cm)	**2**	Award 1 mark for **any** square and rectangle with a total area of 32 e.g. length 31 (cm) width 1 (cm) **or** for two squares with a total area of 32 e.g. length 4 (cm) width 4 (cm)	Length and width can be in either order.

Question	Answer	Marks	Part Marks	Guidance
26	25(%)	**2**	Award 1 mark for sight of $\frac{60}{240}$ **or** $\frac{0.6}{2.4}$ **or** 0.25 or $\frac{1}{4}$ **or** answer of 12.5% **or** for final answer 75%	
27	0.9	**1**		
28	54(°)	**2**	Award 1 mark for sight of 36(°) nfww **or** full correct method, e.g. $90 - \left(\frac{360}{10}\right)$ = wrong answer.	
29	<table><tr><td>Exactly one of the three new children must be 120 centimetres tall</td><td></td></tr><tr><td>Exactly two of the three new children must be 120 centimetres tall</td><td>✓</td></tr></table> <table><tr><td>The three new children have a total height of 300 centimetres</td><td></td></tr><tr><td>The three new children have a total height of 400 centimetres</td><td>✓</td></tr></table>	**2**	Award 1 mark for **each** correct answer.	Accept any clear indication.