Cambridge Assessment International Education

Cambridge Primary Checkpoint

MATHEMATICS **0096/01**

Paper 1 **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_01/6RP

[Turn over

Mark scheme annotations and abbreviations

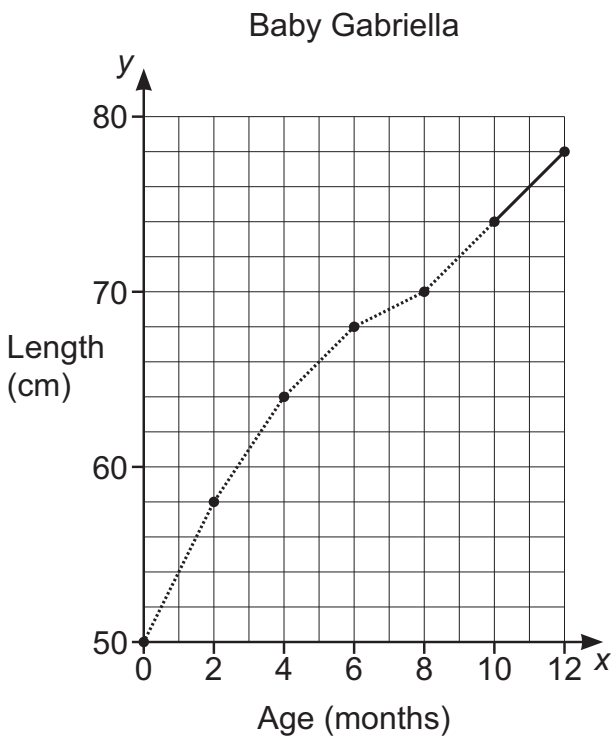
FT	follow through after error
SC	special case mark
cao	correct answer only
dep	dependent
isw	ignore subsequent working
nfww	not from wrong working
oe	or equivalent
soi	seen or implied

Question	Answer	Marks	Part Marks	Guidance
1	3	**1**		Do **not** accept 3.0 or 3.00
2	20	**1**		
3	$\frac{3}{5}$ cao	**1**		
4	*C* **and** *E*	**1**		Both answers correct in either order for the mark. Do **not** accept incorrect letters. Accept (4, 3) **and** (5, 3).
5	−21 −11	**1**		Both answers in the correct order for the mark. Do **not** accept 21− or 11−
6	An angle of 135° drawn.	**1**		Accept 133 – 137° inclusive.
7	3, 7, 13 **or** 5, 7, 11	**1**		All **three** numbers correct in any order for the mark.
8	(−1, 5)	**1**		Do **not** accept (1–, 5).
9	7 + 50 × 6 and 100 × 3 + 7	**1**		Both answers correct for the mark. Accept any clear indication.
10	17.2 × 4	**1**		Accept any clear indication.

<table>
<tr><th>Question</th><th>Answer</th><th>Marks</th><th>Part Marks</th><th>Guidance</th></tr>
<tr><td>11</td><td>54 (cm^2)</td><td>1</td><td></td><td></td></tr>
<tr><td>12</td><td>100° and 45° and 35°</td><td>1</td><td></td><td>All three answers correct for the mark.

Accept any clear indication.</td></tr>
<tr><td>13(a)</td><td>36 (cm)</td><td>1</td><td></td><td></td></tr>
<tr><td>13(b)</td><td>d = s + s + s + s</td><td>1</td><td></td><td>Accept any clear indication.</td></tr>
<tr><td>14</td><td>354 (÷) 6</td><td>1</td><td></td><td>All four digits in the correct order for the mark.</td></tr>
<tr><td>15(a)</td><td>C A B</td><td>1</td><td></td><td>All three letters in the correct order for the mark.</td></tr>
<tr><td>15(b)</td><td>
<table>
<tr><th>Event 1</th><th>Event 2</th><th>Mutually exclusive</th></tr>
<tr><td>Pierre picks a white shape</td><td>Pierre picks a grey shape</td><td>✓</td></tr>
<tr><td>Pierre picks a triangle</td><td>Pierre picks a grey shape</td><td></td></tr>
<tr><td>Pierre picks a circle</td><td>Pierre picks a triangle</td><td>✓</td></tr>
<tr><td>Pierre picks a square</td><td>Pierre picks a white shape</td><td></td></tr>
</table>
</td><td>1</td><td></td><td>Both ticks correct and none incorrect for the mark.

Accept any clear indication.</td></tr>
</table>

Question	Answer	Marks	Part Marks	Guidance
16(a)		**1**		Do **not** accept a correct point without a correct line completing the graph. Correct point implied by line drawn to (12, 78). Tolerance of ±2 mm to correct point in any direction.
16(b)	0 – 2 months	**1**		Accept any clear indication.

Question	Answer	Marks	Part Marks	Guidance
17	No ticked **and** An explanation showing that 50 squares should be shaded but fewer have been shaded, e.g. He has not shaded enough and there should be 50 and he has only done 40 **or** 40 shaded and 60 white. **or** 40 out of 100 squares are shaded. **or** 10 more shaded squares are needed.	**1**		Accept answers showing he has not shaded enough squares, e.g. Less than 50% of the squares are shaded. 50 squares may be expressed as, e.g. 50%, $\frac{1}{2}$, half, $\frac{50}{100}$, 0.5 oe Stating that $\frac{1}{2}$ (or 50%) is not shaded without quantifying greater or less is not sufficient. Accept equivalent answers which refer to the component parts. All numbers used must be correct.
18	1[.00], 0.98	**1**		Accept any equivalent answer.

<table>
<tr><th>Question</th><th>Answer</th><th>Marks</th><th>Part Marks</th><th>Guidance</th></tr>
<tr><td>19</td><td>6</td><td>2</td><td>Award 1 mark for sight of any two from
• 56 ÷ 8
• 1500 ÷ 250 or 1.5 ÷ 0.25
• 20 ÷ 2
or
• 8 × 7 = 56
• 250 × 6 = 1500
• 10 × 2 = 20</td><td>1 mark implied by sight of any two from
• 7
• 6
• 10
nfww</td></tr>
<tr><td>20</td><td>5 × (7 – 2)</td><td>1</td><td></td><td></td></tr>
<tr><td>21</td><td>1200 (ml)
600 (ml)</td><td>2</td><td>Award 1 mark for each correct answer.</td><td>Accept with other units if correct, e.g.
1 litre 200 ml</td></tr>
<tr><td>22</td><td><table><tr><th>Colour of bead</th><th>Number of beads</th></tr><tr><td>Red</td><td>3</td></tr><tr><td>White</td><td>1</td></tr><tr><td>Black</td><td>4</td></tr></table></td><td>1</td><td></td><td>All three answers correct for the mark.</td></tr>
<tr><td>23</td><td>$\frac{3}{20}$ or 0.15 oe</td><td>1</td><td></td><td></td></tr>
<tr><td>24</td><td>9 (cm)</td><td>1</td><td></td><td></td></tr>
</table>

Question	Answer	Marks	Part Marks	Guidance
25(a)	(2, 1)	**1**		Accept answer written on the grid.
25(b)	(–3, 6)	**1**		Accept answer written on the grid. Do **not** accept (3–, 6).
26	354, 534, 456, 546, 564, 654	**2**	Award 1 mark for two or more correct and no more than two incorrect.	Accept answers in any order. For 1 mark, accept numbers that use duplicate cards to make some of the correct numbers, i.e. 336, 366, 444, 636, 666 Award 2 marks if they list all 11 possibilities using duplicates.

Question	Answer	Marks	Part Marks	Guidance
27	20 (cm^2)	**2**	Award 1 mark for sight of 36 or 16 nfww **or** evidence that all four of the right-angled triangles have an area of 4 (cm^2) **or** a correct method with arithmetic errors,e.g. $(4 + 2) \times (4 + 2) - 4(\frac{1}{2} \times 4 \times 2)$ **or** $4\left(\frac{1}{2}\right) \times 4 \times 2) + (2 \times 2)$ oe	
28	63.127	**1**		
29(a)	F	**1**		
29(b)	C **and** D	**1**		Both answers correct in either order for the mark.

Question	Answer	Marks	Part Marks	Guidance
30	○ ○ ○ 12 ○ △ ○ 13 △ △ △ **15** 13 14 13	**1**		
31	Any number between 1.00 and 9.99 inclusive with 2 dp, e.g. 3.67	**1**		