



**Cambridge International Examinations**  
Cambridge Primary Checkpoint

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**MATHEMATICS**

**0845/02**

Paper 2

**October 2016**

MARK SCHEME

Maximum Mark: 40

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**IMPORTANT NOTICE**

Mark Schemes have been issued on the basis of **one** copy per Assistant examiner and two copies per Team Leader.

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This document consists of **10** printed pages.

<b>Question number</b>	<b>1</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
(a)	1	74	
(b)	1	48	
<b>Total</b>	<b>2</b>		

<b>Question number</b>	<b>2</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
(a)	1	20 (children)	
(b)	1	○ ⊂	
<b>Total</b>	<b>2</b>		

<b>Question number</b>	<b>3</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
	1	1290, 1291 or 1292	
<b>Total</b>	<b>1</b>		

<b>Question number</b>	<b>4</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
	1	179 (days)	
<b>Total</b>	<b>1</b>		

<b>Question number</b>	<b>5</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
(a)	1	7:50 (am)	
(b)	1	1:15 pm	Accept 13:15 or any other correct alternative.  Do not accept 1:15 only.
<b>Total</b>	<b>2</b>		

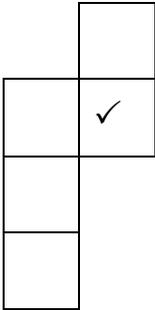
<b>Question number</b>	<b>6</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
(a)	1	(A =) 80  (B =) 250 (accept 248 – 252 inclusive)	
(b)	1	Accept any mark between 3.8 cm and 4.6 cm along the scale.	
<b>Total</b>	<b>2</b>		

<b>Question number</b>	<b>7</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
	1	2 hundredths (2 tenths) 2 tens 2 hundreds	
<b>Total</b>	<b>1</b>		

<b>Question number</b>	<b>8</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
	1	3 and 5 (in any order)  4	
<b>Total</b>	<b>1</b>		

Question number	9		
Part	Mark	Answer	Further Information
(a)	1	$13 \times 100 = 130 \times$ <input type="text" value="10"/>	
(b)	1	$260 \div$ <input type="text" value="10"/> $= 2600 \div 100$	
<b>Total</b>	<b>2</b>		

Question number	10		
Part	Mark	Answer	Further Information
	1	2	
<b>Total</b>	<b>1</b>		

Question number	11		
Part	Mark	Answer	Further Information
	1		
<b>Total</b>	<b>1</b>		

Question number	12		
Part	Mark	Answer	Further Information
	1		<p>Condone loops through 4 and / or 100 e.g.</p>
<b>Total</b>	<b>1</b>		

Question number	13		
Part	Mark	Answer	Further Information
	1	$4.5 \times 2$	
<b>Total</b>	<b>1</b>		

Question number	14		
Part	Mark	Answer	Further Information
	1	4 (7) 9 (11) 14 (19) 20	
<b>Total</b>	<b>1</b>		

Question number	15														
Part	Mark	Answer	Further Information												
	2	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px;">5</td> <td style="padding: 5px;">9</td> <td style="padding: 5px;">.</td> <td style="padding: 5px;">4</td> </tr> <tr> <td colspan="4" style="padding: 5px;">+</td> </tr> <tr> <td style="padding: 5px;">6</td> <td style="padding: 5px;">3</td> <td style="padding: 5px;">.</td> <td style="padding: 5px;">8</td> </tr> </table>	5	9	.	4	+				6	3	.	8	<p>Award 1 mark for 1 or 2 digits correct.</p>
5	9	.	4												
+															
6	3	.	8												
<b>Total</b>	<b>2</b>														

Question number	16		
Part	Mark	Answer	Further Information
	1		
<b>Total</b>	<b>1</b>		

Question number	17		
Part	Mark	Answer	Further Information
(a)	1	$(-7, -6)$	
(b)	1		
<b>Total</b>	<b>2</b>		

<b>Question number</b>	<b>18</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
	1		
<b>Total</b>	<b>1</b>		

<b>Question number</b>	<b>19</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
	1	<input type="text" value="-0.2"/> <input type="text" value="0.3"/> 0.8   1.3   1.8 <input type="text" value="2.3"/>	
<b>Total</b>	<b>1</b>		

<b>Question number</b>	<b>20</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
<b>(a)</b>	1	75 (ringgits)	Accept 73 – 77 inclusive.
<b>(b)</b>	1	100 (dollars)	
<b>Total</b>	<b>2</b>		

<b>Question number</b>	<b>21</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
	1	(\$)1.04	
<b>Total</b>	<b>1</b>		

<b>Question number</b>	<b>22</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
	1	Any of the following answers:  4.170(m), 4.171(m), 4.172 (m), 4.173(m) 4.174(m), 4.175(m), 4.176(m), 4.177(m), 4.178(m), 4.179(m), 4.180(m)	
<b>Total</b>	<b>1</b>		

<b>Question number</b>	<b>23</b>		
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
	1	40 (%)	
<b>Total</b>	<b>1</b>		

<b>Question number</b>	<b>24</b>	<b>CPM</b>	
<b>Part</b>	<b>Mark</b>	<b>Answer</b>	<b>Further Information</b>
	1	No is ticked together with a correct explanation e.g. <ul style="list-style-type: none"> <li>• <math>\frac{1}{3} = 33.3\%</math></li> <li>• <math>30\% = \frac{30}{100}</math> or <math>\frac{3}{10}</math></li> <li>• <math>30\% \times 3 = 90\%</math> but <math>\frac{1}{3} \times 3 = 1</math> (or 100%)</li> </ul>	
<b>Total</b>	<b>1</b>		

Question number	25		
Part	Mark	Answer	Further Information
	1	60 and 90	
<b>Total</b>	<b>1</b>		

Question number	26		
Part	Mark	Answer	Further Information
(a)	1	36.6 (km)	
(b)	1	22.5 (miles)	
<b>Total</b>	<b>2</b>		

Question number	27		
Part	Mark	Answer	Further Information
	2	<p>Ticks the L shape</p> <p><b>and</b></p> <p>Shows calculations giving the two perimeters, for example:</p> <ul style="list-style-type: none"> <li>Perimeters are 32 and 34 cm</li> </ul> <p><b>or</b></p> <p>Explains that both shapes have the same width but the L-shape is taller, for example:</p> <ul style="list-style-type: none"> <li>Both shapes have a width of 10 cm but the L-shape is taller</li> <li>Both shapes are the same width but the L-shape is 1 cm taller so the perimeter is 2 cm larger than the other shape</li> </ul>	<p>Award 1 mark for sight of 32 and 34 cm without a choice being made.</p> <p><b>or</b></p> <p>Award 1 mark for a correct method which involves adding all sides of the respective shapes but contains arithmetic errors leading to a choice.</p>
<b>Total</b>	<b>2</b>		

Question number	28		
Part	Mark	Answer	Further Information
	1		
<b>Total</b>	<b>1</b>		

Question number	29		
Part	Mark	Answer	Further Information
	1	13 (books) or 33 (books)	
<b>Total</b>	<b>1</b>		

Question number	30		
Part	Mark	Answer	Further Information
	1		
<b>Total</b>	<b>1</b>		