



Cambridge International Examinations
Cambridge Primary Checkpoint

MATHEMATICS

0845/01

Paper 1

April 2018

MARK SCHEME

Maximum Mark: 40

IMPORTANT NOTICE

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

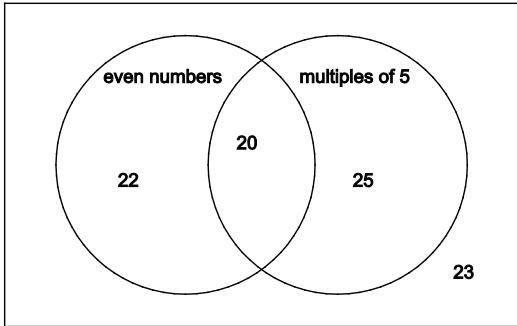
This document consists of **10** printed pages.



Mark scheme annotations and abbreviations

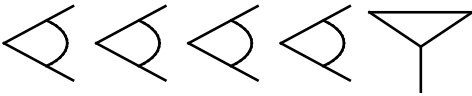
M1	method mark
A1	accuracy mark
B1	independent mark
FT	follow through after error
dep	dependent
oe	or equivalent
cao	correct answer only
isw	ignore subsequent working
soi	seen or implied

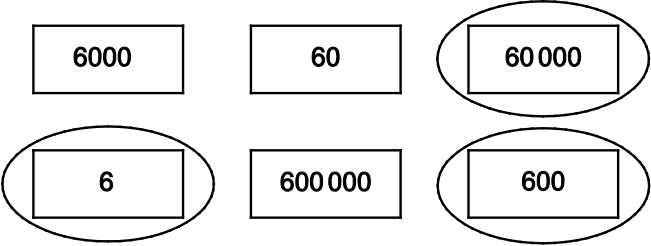
Question	Answer	Marks	Further Information																
1	67	1																	
Question	Answer	Marks	Further Information																
2	18 (squares)	1	Do not accept 18^2																
Question	Answer	Marks	Further Information																
3	<table border="1"> <tbody> <tr> <td>x</td> <td>4</td> <td>3</td> <td>9</td> </tr> <tr> <td>2</td> <td>8</td> <td>6</td> <td>18</td> </tr> <tr> <td>5</td> <td>20</td> <td>15</td> <td>45</td> </tr> <tr> <td>6</td> <td>24</td> <td>18</td> <td>54</td> </tr> </tbody> </table>	x	4	3	9	2	8	6	18	5	20	15	45	6	24	18	54	2	Award 2 marks for all 5 boxes correct.
	x	4	3	9															
2	8	6	18																
5	20	15	45																
6	24	18	54																
	3 or 4 boxes correct	B1																	
Question	Answer	Marks	Further Information																
4	Any 2 triangles shaded	1																	

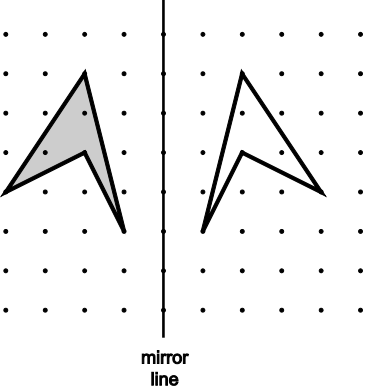
Question	Answer	Marks	Further Information
5		2	All 4 numbers must be in the correct section of the diagram for 2 marks.
	3 numbers correctly placed.	B1	
Question	Answer	Marks	Further Information
6	270 (° clockwise)	1	
Question	Answer	Marks	Further Information
7	<p>Yes, together with calculations showing that $\frac{7}{10} > \frac{3}{5}$</p> <p>for example:</p> <ul style="list-style-type: none"> $\frac{3}{5} = \frac{6}{10}$ so $\frac{7}{10}$ is larger $\frac{3}{5} = 0.6$ and $\frac{7}{10} = 0.7$ so $\frac{7}{10}$ is larger 	1	Do not accept 'Yes' without a mathematically correct explanation.

Question	Answer	Marks	Further Information
8	3721	1	
Question	Answer	Marks	Further Information
9	E	1	Allow 65900
Question	Answer	Marks	Further Information
10	$\frac{1}{\boxed{2}} = 50\%$ $\frac{4}{\boxed{100}} = 4\%$ $\frac{3}{10} = \boxed{30}\%$	2	All three must be correct for the award of 2 marks.
	2 correct answers.	B1	
Question	Answer	Marks	Further Information
11(a)	22 30	1	Accept 22:30 Do not accept 22.30
11(b)	08 45	1	Accept 08:45 Do not accept 8.45

Question	Answer	Marks	Further Information																
12	<table border="1"> <tr> <td>1.6</td> <td>9.4</td> <td>2.6</td> <td>5.4</td> </tr> <tr> <td>4.5</td> <td>8.4</td> <td>5.6</td> <td>4.4</td> </tr> <tr> <td>6.5</td> <td>7.5</td> <td>7.2</td> <td>2.4</td> </tr> <tr> <td>3.5</td> <td>3.6</td> <td>2.5</td> <td>6.6</td> </tr> </table>	1.6	9.4	2.6	5.4	4.5	8.4	5.6	4.4	6.5	7.5	7.2	2.4	3.5	3.6	2.5	6.6	2	Award 2 marks for all four answers correct with no errors.
	1.6	9.4	2.6	5.4															
4.5	8.4	5.6	4.4																
6.5	7.5	7.2	2.4																
3.5	3.6	2.5	6.6																
	2 or 3 answers correct with no more than 2 errors or All 4 correct but with additional pairs ringed.	B1																	
Question	Answer	Marks	Further Information																
13	$4\frac{4}{5}$ (m)	1	Accept 4 plus any fraction equivalent to $\frac{4}{5}$. Do not accept 4.8																
Question	Answer	Marks	Further Information																
14(a)	8 (blocks)	1																	
14(b)	6 (blocks)	1																	

Question	Answer	Marks	Further Information
15(a)	16 and 53	1	Both numbers must be correct.
15(b)		1	

Question	Answer	Marks	Further Information
16		1	All three must be correct for 1 mark.

Question	Answer	Marks	Further Information
17		1	

Question	Answer	Marks	Further Information
18	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px 5px;">7.04</div> <div style="border: 1px solid black; padding: 2px 5px;">7.1</div> <div style="border: 1px solid black; padding: 2px 5px;">7.4</div> <div style="border: 1px solid black; padding: 2px 5px;">7.44</div> </div>	1	All 4 boxes must be correct for 1 mark.

Question	Answer	Marks	Further Information
19	0.9 or $\frac{9}{10}$	1	

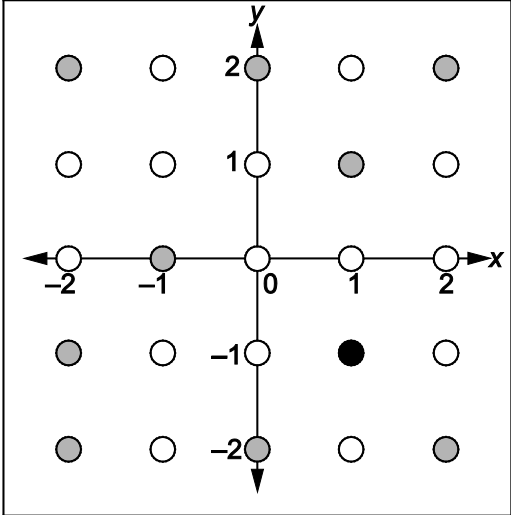
Question	Answer	Marks	Further Information
20	68.4 1.9 684	2	All 3 correct.
	2 correct.	B1	

Question	Answer	Marks	Further Information
21	80 and 100 and 120	2	All 3 correct with no incorrect answers.
	2 correct answers with no incorrect answers or 3 correct answers and no more than 1 incorrect answer	B1	

Question	Answer	Marks	Further Information
22	60(°)	1	

Question	Answer	Marks	Further Information
23	17 (°C)	1	Do not accept -17 (°C)

Question	Answer	Marks	Further Information
24(a)	(\$) 31.25	1	
24(b)	(\$) 258.65	1	

Question	Answer	Marks	Further Information
25(a)		1	'Peg' marked at the point (1, -1) Accept any identifiable mark.
25(b)	(-1, -1) (0, -1) (2, -1)	1	All 3 co-ordinates must be correct for 1 mark. Accept the answers in any order.
Question	Answer	Marks	Further Information
26	3500	1	
Question	Answer	Marks	Further Information
27	$17\frac{1}{2}$ (miles) or 17.5 (miles)	1	Accept answers in the range 17 miles to 18 miles inclusive.

Question	Answer	Marks	Further Information
28(a)	Any three numbers of which at least two are 6	1	
28(b)	Any three numbers where largest – smallest is 7	1	