Cambridge Primary Checkpoint

Cambridge International Examinations
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MATHEMATICS **0845/01**

Paper 1 **October 2018**

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 an 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.

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

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CAMBRIDGE International Examinations

[Turn over

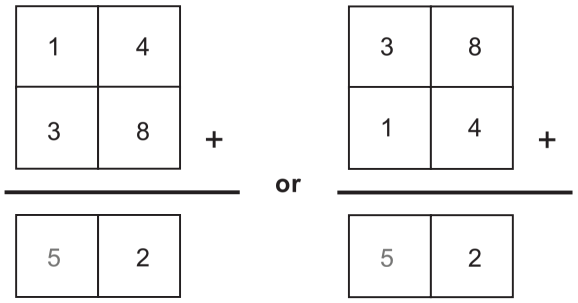
Question	Answer	Marks	Further Information
1	E2	**1**	Do not accept 2E
2	166 (magazines)	**1**	
3	C B D A	**1**	Do not accept reverse order. Allow 40°, 90°, 100°, 130° ±1
4	60 (people)	**1**	
5	All 5 numbers correct: × | 3 | 5 | **9** 4 | 12 | **20** | 36 **6** | 18 | 30 | **54** 2 | **6** | 10 | 18	**2**	
	3 or 4 correct numbers	B1	
6(a)	35	**1**	
6(b)	'No' must be ticked, together with an explanation that the twelfth number in the sequence is even, not odd, for example: • 12 × 5 is 60 (which is even or is not odd) • the sequence goes odd, even, odd, even so the twelfth number will be even • odd × even = even • all the even multiples of 5 are even • 60 (is even) • the twelfth number is 60	**1**	Do not accept 'No' without a valid explanation. Accept alternative wording. Do not accept just 'The twelfth number is even'. Explanation must be mathematically correct and calculations must relate to 12 × 5 and or 60

Question	Answer	Marks	Further Information
7	20 (cm)	**1**	
8	5 (days)	**1**	Accept a list, or clear indication of: Monday, Tuesday, Wednesday, Saturday, Sunday
9	5.3 + 4.7 **or** 5.7 + 4.3	**1**	Numbers can be in either order.
10	(*x* =) 56 (°)	**1**	
11	$3\frac{2}{5}$	**1**	Do not accept 3.4
12	63 (mm)	**1**	Allow any answer between 61 mm and 65 mm. Do not accept answer in centimetres.
13	6750 700 68 (6651) 7000	**1**	Accept alternative, unambiguous indications of the correct answer.
14(a)	isosceles **and** Explanation that 2 sides are equal **or** Explanation that 2 angles are equal	**1**	Do not award the mark for isosceles with no explanation. Allow 'Because it has (only) one line of symmetry.'
14(b)	scalene **and** Explanation that all sides are different lengths **or** Explanation that all angles are different sizes	**1**	Do not award the mark for scalene with no explanation. Allow 'has no line of symmetry'

<table>
<tr><th>Question</th><th>Answer</th><th>Marks</th><th>Further Information</th></tr>
<tr><td>15</td><td>225 (grams)</td><td>1</td><td></td></tr>
<tr><td>16(a)</td><td>They are all square numbers.</td><td>1</td><td>Accept the mark for recognition that they are all a number multiplied by itself, e.g.
4 × 4, 5 × 5, 6 × 6, 7 × 7, 8 × 8

Allow a × a = b or similar</td></tr>
<tr><td>16(b)</td><td>81</td><td>1</td><td></td></tr>
<tr><td>17</td><td>A C D B</td><td>1</td><td>Accept the correct times listed in order:
6:55 7:30 9:10 9:45</td></tr>
<tr><td rowspan="2">18</td><td><table><tr><th>IN</th><th>OUT</th></tr><tr><td>1.5</td><td>150</td></tr><tr><td>9.37</td><td>937</td></tr><tr><td>6.2</td><td>620</td></tr><tr><td>0.49</td><td>49</td></tr><tr><td>0.07</td><td>7</td></tr></table></td><td>2</td><td>All 4 numbers correct.</td></tr>
<tr><td>2 or 3 numbers correct</td><td>B1</td><td></td></tr>
<tr><td>19</td><td>($)198 oe</td><td>1</td><td></td></tr>
</table>

Question	Answer	Marks	Further Information
20(a)	19 (cents)	**1**	
20(b)	Apple ticked, together with calculations showing that an orange costs less than an apple, for example: • 88 ÷ 5 = 17r3 which is less than 19 • 88 ÷ 5 = 17.6 which is less than 19 • 19 × 5 = 95 cents which is more than 88 cents **or** An explanation that the difference in price between 5 oranges and 4 apples is 12 cents which is not enough to buy an apple. If **part (a)** incorrect with an answer less than 17.6 and calculation for orange in **part (b)** is correct e.g. 88 ÷ 5 = 17.6 then the conclusion that the orange costs more to be marked correct as follow through.	**1**	Do not award mark for apple ticked without correct justification.
21	17 **and** 29 or 71 **and** 29	**1**	Accept answers in any order
22	0.9	**1**	
23	25(%)	**1**	

Question	Answer	Marks	Further Information
24		**1**	
25(a)	Even (chance)	**1**	Accept fifty-fifty, 50%, $\frac{3}{6}$, $\frac{1}{2}$ or equivalent fractions.
25(b)	Impossible or No chance	**1**	Accept 0 or zero.
26	9	**1**	

Question	Answer	Marks	Further Information
27	(true) true false true true	**2**	All entries must be correct for the award of 2 marks. Accept any unambiguous indication of the correct answer.
	Any three correct entries.	B1	

<table>
<tr><th>Question</th><th>Answer</th><th>Marks</th><th>Further Information</th></tr>
<tr><td rowspan="2">28</td><td>
<table>
<tr><td></td><td>Number who walk to school</td><td>Number who do not walk to school</td><td>Total</td></tr>
<tr><td>Number of Boys</td><td>9</td><td>6</td><td>15</td></tr>
<tr><td>Number of Girls</td><td>3</td><td>12</td><td>15</td></tr>
<tr><td>Total</td><td>12</td><td>18</td><td>30</td></tr>
</table>
</td><td>2</td><td>All 6 boxes correct.</td></tr>
<tr><td>3, 4 or 5 boxes correct.
or
Either first or second column correct and all columns totaling correctly and correct follow through total for rows
E.g.
<table>
<tr><td></td><td>Number who walk to school</td><td>Number who do not walk to school</td><td>Total</td></tr>
<tr><td>Number of Boys</td><td>9</td><td>12</td><td>21</td></tr>
<tr><td>Number of Girls</td><td>3</td><td>6</td><td>9</td></tr>
<tr><td>Total</td><td>12</td><td>18</td><td>30</td></tr>
</table>
</td><td>M1</td><td></td></tr>
<tr><td>29</td><td>10.8 (metres)</td><td>1</td><td></td></tr>
<tr><td>30</td><td>$\frac{5}{100}$ or 0.05 or five hundredths</td><td>1</td><td>Do not accept hundredths or $\frac{1}{100}$
Do not accept 5 hundreds.
Allow $\frac{1}{20}$</td></tr>
<tr><td>31</td><td>68</td><td>1</td><td></td></tr>
</table>