



Pearson
Edexcel

Mark Scheme (Results)

May 2022

Pearson Edexcel iPrimary Mathematics
Year 6 Mathematics (JMA11)
Paper 01

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Summer 2022

Log number 69197

Publications Code JMA11_01_2206_MS

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General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

**iPrimary JMA11 2206
Mark Scheme**

Section A

Question number	Answer	Mark
1	The only correct answer is A – 216 B is not correct because it subtracts smallest digit from largest C is not correct because it is addition without carrying D is not correct because it is addition	1

Question number	Answer	Mark
2	The only correct answer is B - Reflex A is not correct because it is not acute C is not correct because it is not a right angle D is not correct because it is not obtuse	1

Question number	Answer	Mark
3	The only correct answer is C - 42 A is not correct because $48 - 6 \neq 26$ B is not correct because $48 - 6 \neq 38$ D is not correct because $48 - 6 \neq 60$	1

Question number	Answer	Mark
4	The only correct answer is A – 12 B is not correct because 24 is $\frac{1}{2}$ of 48 C is not correct because 36 is $\frac{3}{4}$ of 48 D is not correct because 192 is 48×4	1

Question number	Answer	Mark
5	<p>The only correct answer is C - 8</p> <p>A is not correct because 6 is not the mean</p> <p>B is not correct because 7 is the median</p> <p>D is not correct because 10 is the range (or mode)</p>	1

Question number	Answer	Mark
6	<p>The only correct answer is C – 22</p> <p>A is not correct because $6 + 5 = 11$ (1/2 the perimeter)</p> <p>B is not correct because 17 is incomplete (on side of 5cm is missing)</p> <p>D is not correct because $6 \times 5 = 30$</p>	1

Question number	Answer	Mark
7	<p>The only correct answer is B - 19</p> <p>A is not correct because 15 is not prime</p> <p>C is not correct because 36 is not prime</p> <p>D is not correct because 51 is not prime</p>	1

Question number	Answer	Mark
8	<p>The only correct answer is C – 346cm</p> <p>A is not correct because 346mm is equivalent to 0.346m</p> <p>B is not correct because 34.6cm is equivalent to 0.346m</p> <p>D is not correct because 3460cm is equivalent to 34.6m</p>	1

Question number	Answer	Mark
9	<p>The only correct answer is B - 8</p> <p>A is not correct because 6 is 14 subtract 2 then half</p> <p>C is not correct because 9 is 14 halved then add 2</p> <p>D is not correct because 24 is 14 subtract 2 then double</p>	1

Question number	Answer	Mark
10	<p>C 8</p> <p>The only correct answer is C - 8</p> <p>A is not correct because 2cm is half of the radius</p> <p>B is not correct because 4cm is the radius</p> <p>D is not correct because 16cm is radius x 4</p>	1

Question number	Answer	Mark
11	<p>B -30%</p> <p>The only correct answer is B - 30%</p> <p>A is not correct because 20% is the amount of butter</p> <p>C is not correct because 50% is the amount of flour</p> <p>D is not correct because 70% is the total of sugar and flour</p>	1

Question number	Answer	Mark
12	<p>The only correct answer is A - letter C</p> <p>B is not correct because F has no lines of symmetry</p> <p>C is not correct because L has no lines of symmetry</p> <p>D is not correct because R has no lines of symmetry</p>	1


Question number	Answer	Mark
13	<p>The only correct answer is B - 42</p> <p>A is not correct because $40 = 8 \times 5$</p> <p>C is not correct because $45 = 9 \times 5$</p> <p>D is not correct because $420 = 84 \times 5$</p>	1

Question number	Answer	Mark
14	<p>The only correct answer is A – 127 000</p> <p>B is not correct because 127 400 is incorrect rounding down to the nearest hundred</p> <p>C is not correct because 127 500 is rounded to the nearest hundred</p> <p>D is not correct because 128 000 is incorrectly rounded up to the nearest thousand</p>	1

Question number	Answer	Mark
15	<p>The only correct answer is B - \$11.31</p> <p>A is not correct because \$8.69 is the cost of a drink and 2 cakes</p> <p>C is not correct because \$12.41 is incorrect decomposition method (changing \$20.00 to \$2¹⁰.¹⁰¹⁰)</p> <p>D is not correct because \$13.81 is the change from buying 2 drinks and a cake</p>	1

Question number	Answer	Mark
16	<p>The only correct answer is D $3x + y$</p> <p>A is not correct because $x + y$ is $2x - x + 3y - 2y$</p> <p>B is not correct because $3x + 5y$ is $2x + x + 3y + 2y$</p> <p>C is not correct because $2x + y$ doesn't use the final x</p>	1

Question number	Answer	Mark
17	<p>The only correct answer is C – 288m</p> <p>A is not correct because 72m is $\frac{1}{5}$ of 360m</p> <p>B is not correct because 216m is $\frac{3}{5}$ of 360m</p> <p>D is not correct because 450 is $\frac{5}{4}$ of 360m</p>	1

Question number	Answer	Mark
18	<p>The only correct answer is B -</p>  <p>A is not correct because A is an equilateral</p> <p>C is not correct because C is a right-angle triangle</p> <p>D is not correct because D is a scalene triangle</p>	1

Question number	Answer	Mark
19	<p>The only correct answer is D - $\frac{5}{7}$</p> <p>A is not correct because $\frac{2}{7}$ is days with more than 10cm of rainfall</p> <p>B is not correct because $\frac{7}{2}$ is the incorrect fraction for more than 10cm</p> <p>C is not correct because $\frac{7}{5}$ is the incorrect fraction for less than 10cm</p>	1

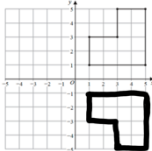
Question number	Answer	Mark
20	<p>D $22\frac{5}{6}$</p> <p>The only correct answer is D - $22\frac{5}{6}$</p> <p>A is not correct because $22\frac{2}{17}$ is incorrect remainder notation from division calculation</p> <p>B is not correct because $22\frac{1}{6}$ is incorrect use of $\frac{1}{6}$ rather than $\frac{5}{6}$</p> <p>C is not correct because $22\frac{5}{17}$ is incorrect remainder notation from division calculation</p>	1

Section B

Question number	Answer	Notes	Mark
21a	11:40 or 23:40	B1	1

Question number	Answer	Notes	Mark
21b	12:15 or 00:15	B1	1

Question number	Answer	Notes	Mark																		
22	<p>Correct Tally Chart</p> <table border="1"> <thead> <tr> <th>Sport</th> <th>Tally</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Football</td> <td> </td> <td>11</td> </tr> <tr> <td>Cricket</td> <td> </td> <td>6</td> </tr> <tr> <td>Swimming</td> <td> </td> <td>4</td> </tr> <tr> <td>Running</td> <td> </td> <td>3</td> </tr> <tr> <td>Hockey</td> <td> </td> <td>1</td> </tr> </tbody> </table>	Sport	Tally	Total	Football		11	Cricket		6	Swimming		4	Running		3	Hockey		1	<p>B3 fully correct</p> <p>B2 for at least 3 fully correct rows or a fully correct tally chart without labels</p> <p>B1 All tallies or frequencies (accept 1 error or omission) or 1 fully correct row</p> <p>Note: Do not accept a graph Chart titles along the side and sports along the top is acceptable</p>	3
Sport	Tally	Total																			
Football		11																			
Cricket		6																			
Swimming		4																			
Running		3																			
Hockey		1																			

Question number	Answer	Notes	Mark
23	<p>Correct reflection</p> 	B1	1

Question number	Answer	Notes	Mark
24	92	B1	1

Question number	Answer	Notes	Mark
25	25% 0.43 6/10 0.7	B1 Accept oe answers	1

Question number	Answer	Notes	Mark
26	Alison 27 Sister 18	M1 $45 \div "3+2"$ (=9) OR Alison = 27 OR sister = 18 OR Alison = 18 AND sister = 27 A1	2

Question number	Answer	Notes	Mark
27a	158.91	B1	1

Question number	Answer	Notes	Mark
27b	258.11	B1	1

Question number	Answer	Notes	Mark
28a	143	B1	1

Question number	Answer	Notes	Mark
28b	47	B1 Accept answer in the range 45 – 49	1

Question number	Answer	Notes	Mark
29a	$\frac{1}{2}$ AND $\frac{1}{4}$	B1	1

Question number	Answer	Notes	Mark
29bi	6	B1	1

Question number	Answer	Notes	Mark
29bii	e.g. $\frac{3}{4}$ 9/12 15/20 oe or 3/1 36/12 15/5 oe or 3/6 6/12 15/30 oe or 3/3 12/12 15/15 oe or 3/2 18/12 15/10 oe	B2 for three different equivalent fractions B1 for at least 1 correct pair of fractions	2

Question number	Answer	Notes	Mark
29c	$\frac{14}{15}$ oe	B1	1

Question number	Answer	Notes	Mark
29d	$\frac{6}{12}$ or $\frac{1}{2}$ oe	B1	1

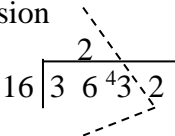
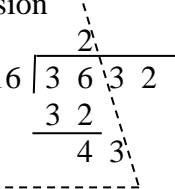
Question number	Answer	Notes	Mark
30a	19 22	B1	1

Question number	Answer	Notes	Mark
30b	76	B1	1

Question number	Answer	Notes	Mark
30c	$20a + b$	M1 for $12a - 3b$ OR $8a + 4b$ OR $20a$ OR b A1 Accept $b + 20a$	2

Question number	Answer	Notes	Mark
30d	5	B1	1

Question number	Answer	Notes	Mark
31	42	M1 fully correct method e.g. $7 \times 2 \times 3 (= 42)$ or "6" $\times 7$ or "14" $\times 3$ or "21" $\times 2$ A1 cao	2

Question number	Answer	Notes	Mark
32	227	M1 for a correct first step to solving the division Eg: Short division  Long division  Chunking methods can be used but must be complete to an answer A1 (DEP) cao	2

Question number	Answer	Notes	Mark															
33	58 328	<p>M1 for a complete method with NO place value errors (allow one calculation error) or 50 720 AND 7 608 seen</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tbody> <tr> <td>×</td> <td>2000</td> <td>500</td> <td>30</td> <td>6</td> </tr> <tr> <td>20</td> <td>40000</td> <td>10000</td> <td>600</td> <td>120</td> </tr> <tr> <td>3</td> <td>6000</td> <td>1500</td> <td>90</td> <td>18</td> </tr> </tbody> </table> <p>A1 Dep cao</p>	×	2000	500	30	6	20	40000	10000	600	120	3	6000	1500	90	18	2
×	2000	500	30	6														
20	40000	10000	600	120														
3	6000	1500	90	18														

Question number	Answer	Notes	Mark
34a	198	B1	1

Question number	Answer	Notes	Mark
34b	25	B1	1

Question number	Answer	Notes	Mark
35a	56	B1	1

Question number	Answer	Notes	Mark
35b	160	B1	1

Question number	Answer	Notes	Mark
36	4	<p>M1 Blue = 6 or Green = 6 or Red + Yellow + Orange = 12 or Orange = 1/6 or Red = 1/6 or Yellow = 1/6 or 24 ÷ 2 ÷ 3 or “12” ÷ 3</p> <p>A1 cao</p>	2

Question number	Answer	Notes	Mark
37	<p style="text-align: center;">4</p> <p>ALT Scheme:</p> <p style="text-align: center;">4</p> <p>Alternative answer:</p> <p style="text-align: center;">5</p>	<p>M1 For a method to find one relevant area e.g. 20 x 15 (=300) Or “300” x 3 (=900) Or “900” x 20 (=18000) Or 100 x 50 (= 5000)</p> <p>M1 “18000” ÷ “5000” (=3.6)</p> <p>A1 cao</p> <p>M1 100 ÷ 20 (= 5) or 50 ÷ 15 (=3(.3...)) or 20 x 3 (= 60) or 60 (cm) x 45 (cm) for one face covering</p> <p>M1 1 sheet = “5” x “3” (=15) or 1 sheet = 5 coverings or 20 ÷ “5” or “60” ÷ “15”</p> <p>A1 cao</p> <p>M1 100 ÷ 15 (= 6(.6...)) or 50 ÷ 20 (= 2(.5)) or 20 x 3 (= 60) or 60 (cm) x 45 (cm) for one face covering</p> <p>M1 1 sheet = “6” x “2” (=12) or 1 sheet = 4 coverings or 20 ÷ “4” or “60” ÷ “12”</p> <p>A1 ca</p>	3

