



Pearson
Edexcel

Mark Scheme (Results)

October 2022

Pearson Edexcel iPrimary Lower Secondary
Mathematics (iPLS)
Year 6 Mathematics (JMA11) Paper 01

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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 October 2022
Mark Scheme**

Section A

Question number	Answer	Mark
1	A 3 x 3 B 5 x 5 C CORRECT ANSWER D 3 and 5 'joined together'	1

Question number	Answer	Mark
2	A CORRECT ANSWER B clock showing 6:35 C clock showing 6:40 D clock showing 8:30	1

Question number	Answer	Mark
3	A 8cm + 3cm B (8cm + 3cm) x 2 ... perimeter C CORRECT ANSWER D (8cm x 3cm) x 2	1

Question number	Answer	Mark
4	A CORRECT ANSWER B blue, not lorry C not blue, lorry D not blue, not lorry	1

Question number	Answer	Mark
5	A 0.038m B CORRECT ANSWER C 3.8m D 38m	1

Question number	Answer	Mark
6	A 10% B CORRECT ANSWER C 50% D 70%	1

Question number	Answer	Mark
7	A 6 – 9 (difference between 15 and 6) B $6 \div 3 - 1$ C $6 \div 3$ D CORRECT ANSWER	1

Question number	Answer	Mark
8	A Heptagon (7 sides) B CORRECT ANSWER C Octagon (8 sides) D Pentagon (5 sides)	1

Question number	Answer	Mark
9	A CORRECT ANSWER B 3 shaded / 5 not shaded C fraction of unshaded D 5 not shaded / 3 shaded	1

Question number	Answer	Mark
10	A $0.66 \div 3$ B $0.66 \times 3/2$ C 0.66×2 D CORRECT ANSWER	1

Question number	Answer	Mark
11	A round down to 1000's B CORRECT ANSWER C round up to 100's D round up to 1000's	1

Question number	Answer	Mark
12	A first - last B mode (or median) C mean D CORRECT ANSWER	1

Question number	Answer	Mark
13	A incorrect alignment B CORRECT ANSWER C correct alignment, incorrect subtraction D added	1

Question number	Answer	Mark
14	A CORRECT ANSWER B not rounded (3247 – 475) C both rounded up or both rounded down (3300-500 or 3200-400) D rounded up – rounded down (3300 – 400)	1

Question number	Answer	Mark
15	A square number B square number C CORRECT ANSWER D cube number	1

Question number	Answer	Mark
16	A plotted point B $x = -3$ C $x = -3, y = -3$ D CORRECT ANSWER	1

Question number	Answer	Mark
17	A does not multiply $3 \times 2e$ B adds 3 to $2e$ C does not multiply $3 \times f$ D CORRECT ANSWER	1

Question number	Answer	Mark
18	A $540 \div 5$ B $540 \div 3$ C CORRECT ANSWER D $540 \div 5 \times 3$	1

Question number	Answer	Mark
19	A only identified 1 B only identifies symmetry from the edges OR the vertices C common incorrect symmetry answer, for all shapes D CORRECT ANSWER	1

Question number	Answer	Mark
20	A 21-32-11 B CORRECT ANSWER C 24-28+11 D 24+28-11	1

Section B

Question number	Answer	Notes	Mark												
21	<table border="1"> <thead> <tr> <th>Sock colour</th> <th>Tally</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Black</td> <td> </td> <td>9</td> </tr> <tr> <td>Blue</td> <td> </td> <td>4</td> </tr> <tr> <td>Grey</td> <td> </td> <td>12</td> </tr> </tbody> </table>	Sock colour	Tally	Total	Black		9	Blue		4	Grey		12	B2 for 5 or 6 correct sections If not B2 then B1 for at least 3 correct sections	2
Sock colour	Tally	Total													
Black		9													
Blue		4													
Grey		12													

Question number	Answer	Notes	Mark
22a (i)	87 134 247 608	B1 fully correct	1

Question number	Answer	Notes	Mark
22a (ii)	- 9 - 6 -2 5 8	B1 fully correct	1

Question number	Answer	Notes	Mark
22b	20% $\frac{1}{4}$ 0.35 0.5 $\frac{3}{4}$ Or 0.2 0.25 0.35 0.5 0.75	M1 for correct order allowing one error or omission or at least three numbers correctly converted to decimals or reverse order with no errors A1 cao	2

Question number	Answer	Notes	Mark
23a	130	B1 Accept $\pm 2^\circ$	1

Question number	Answer	Notes	Mark
23b	87	B1 Accept $\pm 2\text{mm}$	1

Question number	Answer	Notes	Mark
24a		B1 fully correct Note: answers can be in any order	1

Question number	Answer	Notes	Mark
24b	1, 2, 4, 8, 16	B1 fully correct Accept 4 written twice	1

Question number	Answer	Notes	Mark
24c	8	B1	1

Question number	Answer	Notes	Mark
25a	D	B1	1

Question number	Answer	Notes	Mark
25b	12	B1	1

Question number	Answer	Notes	Mark
25c	4	B1	1

Question number	Answer	Notes	Mark
25d	Trapezium	B1	1

Question number	Answer	Notes	Mark
26	48	M1 for a fully correct method e.g. $150 \times 0.32 (=48)$ $15+15+15+1.5+1.5 (=48)$ or $150 \times 32/100 (=48)$ A1 cao	2

Question number	Answer	Notes	Mark
27a	18	B1	1

Question number	Answer	Notes	Mark
27b	16	B1	1

Question number	Answer	Notes	Mark
28a	3 Up 5 Right	B1 B1 Note: do not accept <i>across</i> without stating direction	2

Question number	Answer	Notes	Mark
28b	A and B Plotted correctly at (1 , 0) and (-2 , 0) or (1 , 6) and (-2 , 6)	B1 Note: both points must be plotted correctly	1

Question number	Answer	Notes	Mark
29a	4.51	B1	1

Question number	Answer	Notes	Mark
29b	5.49	B1 (ft) Note: follow through from their answer to 29a if B0 scored	1

Question number	Answer	Notes	Mark															
30	64 368	<p>M1 for a complete and correct method, with NO place value errors (allow ONE calculation error)</p> <p>or</p> <p>47 680 AND 16 688 seen</p> <p>NB these can be seen as jottings from other method</p> <p>or</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tbody> <tr> <td>×</td> <td>2000</td> <td>300</td> <td>80</td> <td>4</td> </tr> <tr> <td>20</td> <td>40000</td> <td>6000</td> <td>1600</td> <td>80</td> </tr> <tr> <td>7</td> <td>14000</td> <td>2100</td> <td>560</td> <td>28</td> </tr> </tbody> </table> <p>Grids must have NO place value errors, no more than one arithmetic error, AND an intention to add.</p> <p>A1 Dep M1</p>	×	2000	300	80	4	20	40000	6000	1600	80	7	14000	2100	560	28	2
×	2000	300	80	4														
20	40000	6000	1600	80														
7	14000	2100	560	28														

Question number	Answer	Notes	Mark
31a	10	B1	1

Question number	Answer	Notes	Mark
31b	11	B1	1

Question number	Answer	Notes	Mark
32	324	<p>M1 for a correct first step to solving the division e.g. Short division</p> $18 \overline{) 58432}$ <p>Long division</p> $18 \overline{) 5832}$ $\underline{54}$ 43 <p>Chunking methods can be used but must be complete (equal sized chunks are acceptable)</p> <p>A1 Dep M1</p>	2

Question number	Answer	Notes	Mark
33	280	<p>M1 for complete method e.g. $112 \div 2 \times 5$ or $112 \div 2 (= 56)$ and $'56' \times 5$</p> <p>A1 cao</p>	2

Question number	Answer	Notes	Mark
34a	$5x + 3y$	<p>M1 for $2x - 6y$ or $3x + 9y$ or $5x$ or $3y$</p> <p>A1</p>	2

Question number	Answer	Notes	Mark
34b	3	B1	1

Question number	Answer	Notes	Mark
35a	No and correct reason	B2 for No AND there are 60 lions at both park If not B2 then B1 for correctly finding 60 lions at Sunny Hills or 60 lions at Long Ridge	2

Question number	Answer	Notes	Mark
35b	50	M1 for correct method to find number of monkeys at Long Ridge: e.g. $240 \div 3 (=80)$ $240/3 (=80)$ $\frac{1}{3} \times 240 (=80)$ M1 for full method to find the number of leopards or giraffes at Long Ridge: e.g. $(240 - ("60" + "80")) \div 2$ or $240 - "60" - "80" (=100)$ and $"100" \div 2$ A1 Dep M1	3

