



Pearson
Edexcel

Mark Scheme (Results)

October 2021

Pearson Edexcel iPrimary Mathematics
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 2021
Mark Scheme**

Section A

Question number	Answer	Mark
1	The only correct answer is A - Hexagon B is not correct because an octagon has 8 sides C is not correct because a quadrilateral has 4 sides D is not correct because a pentagon has 5 sides	1

Question number	Answer	Mark
2	The only correct answer is A - Odd B is not correct because they are not even C is not correct because they are not square numbers D is not correct because they are not prime numbers	1

Question number	Answer	Mark
3	The only correct answer is C – 10kg A is not correct because 2kg is the difference between 1st and last or the smallest weight B is not correct because 7kg is the mode D is not correct because 12kg is the heaviest weight	1

Question number	Answer	Mark
4	B $\frac{5}{12}$ The only correct answer is B - 8 A is not correct because 6 is the denominator C is not correct because 40 is 5/6 D is not correct because 288 is 48 x 6	1

Question number	Answer	Mark
5	C 800 The only correct answer is B - 8 A is not correct because 6 is the denominator C is not correct because 40 is 5/6 D is not correct because 288 is 48 x 6	1

Question number	Answer	Mark
6	C 10 The only correct answer is B - 8 A is not correct because 6 is the denominator C is not correct because 40 is 5/6 D is not correct because 288 is 48 x 6	1

Question number	Answer	Mark
7	C 36 The only correct answer is B - 8 A is not correct because 6 is the denominator C is not correct because 40 is 5/6 D is not correct because 288 is 48 x 6	1

Question number	Answer	Mark
8	B 68 000 The only correct answer is B - 8 A is not correct because 6 is the denominator C is not correct because 40 is 5/6 D is not correct because 288 is 48 x 6	1

Question number	Answer	Mark
9	D D The only correct answer is B - 8 A is not correct because 6 is the denominator C is not correct because 40 is 5/6 D is not correct because 288 is 48 x 6	1

Question number	Answer	Mark
10	B 12 cm ² The only correct answer is B - 8 A is not correct because 6 is the denominator C is not correct because 40 is 5/6 D is not correct because 288 is 48 x 6	1

Question number	Answer	Mark
11	A 3 The only correct answer is B - 8 A is not correct because 6 is the denominator C is not correct because 40 is 5/6 D is not correct because 288 is 48 x 6	1

Question number	Answer	Mark
12	B \$2.29 The only correct answer is B - 8 A is not correct because 6 is the denominator C is not correct because 40 is 5/6 D is not correct because 288 is 48 x 6	1

Question number	Answer	Mark
13	D 48 The only correct answer is B - 8 A is not correct because 6 is the denominator C is not correct because 40 is 5/6 D is not correct because 288 is 48 x 6	1

Question number	Answer	Mark
14	D (3 , 2) The only correct answer is B - 8 A is not correct because 6 is the denominator C is not correct because 40 is 5/6 D is not correct because 288 is 48 x 6	1

Question number	Answer	Mark
15	C 13:15 The only correct answer is B - 8 A is not correct because 6 is the denominator C is not correct because 40 is 5/6 D is not correct because 288 is 48 x 6	1

Question number	Answer	Mark
16	C $f + 3e$ The only correct answer is B - 8 A is not correct because 6 is the denominator C is not correct because 40 is 5/6 D is not correct because 288 is 48 x 6	1

Question number	Answer	Mark
17	<p>B 3</p> <p>The only correct answer is B - 8</p> <p>A is not correct because 6 is the denominator</p> <p>C is not correct because 40 is 5/6</p> <p>D is not correct because 288 is 48 x 6</p>	1

Question number	Answer	Mark
18	<p>B 30</p> <p>The only correct answer is B - 8</p> <p>A is not correct because 6 is the denominator</p> <p>C is not correct because 40 is 5/6</p> <p>D is not correct because 288 is 48 x 6</p>	1

Question number	Answer	Mark
19	<p>A $\frac{1}{14}$</p> <p>The only correct answer is B - 8</p> <p>A is not correct because 6 is the denominator</p> <p>C is not correct because 40 is 5/6</p> <p>D is not correct because 288 is 48 x 6</p>	1

Question number	Answer	Mark
20	<p>D 72</p> <p>The only correct answer is B - 8</p> <p>A is not correct because 6 is the denominator</p> <p>C is not correct because 40 is 5/6</p> <p>D is not correct because 288 is 48 x 6</p>	1

Section B

Question number	Answer	Notes	Mark
21a	575	B1 cao	1

Question number	Answer	Notes	Mark
21b	22 191	B1 cao	1

Question number	Answer	Notes	Mark
22		<p>B2 fully correct</p> <p>If not B2, then B1 for one correct join</p>	2

Question number	Answer	Notes	Mark
23a	<p>Yellow total = 10</p> <p>Green tally (3)</p> <p>Blue Tally (5 'gated' and 1)</p> <p>Purple total = 1</p>	<p>B2 for fully correct</p> <p>If not B2, then B1 for 2 or 3 correct</p>	2

Question number	Answer	Notes	Mark
23b	<p>Red 2 sections shaded</p> <p>Yellow 5 sections shaded</p> <p>Green 1½ sections shaded</p> <p>Blue 3 sections shaded</p> <p>Purple ½ section shaded</p>	<p>B3 - fully correct AND labelled pie chart</p> <p>B2 - fully correct sections with no labels</p> <p>or</p> <p>at least 2 correct AND labelled sections</p> <p>B1 – 1 correct AND labelled section</p> <p>NB: Must see sections drawn</p>	3

Question number	Answer	Notes	Mark
24	\$120	M1 correct method ($180 \div 3$) OR 60 seen A1cao	2

Question number	Answer	Notes	Mark
25a	(5 , 1)	B1	1

Question number	Answer	Notes	Mark
25b	R plotted at (-2 , -5)	B1	1

Question number	Answer	Notes	Mark
26a	$a = 90^\circ$	B1	1

Question number	Answer	Notes	Mark
26b	$b = 35^\circ$	B1	1

Question number	Answer	Notes	Mark
26c	$c = 55^\circ$	B1 or follow through from an incorrect value from b if ' $b+c$ ' =90	1

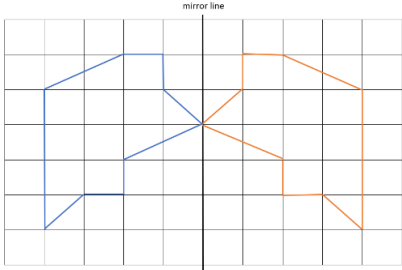
Question number	Answer	Notes	Mark
27	62 127	M1 for a complete method with NO place value errors (allow one calculation error) OR 46 020 and 16 107 seen (as a minimum in jottings from informal methods) A1 (DEP) cao	2

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Question number	Answer	Notes	Mark
28a	$15x + 5y$	B1 <i>Accept $5y + 15x$</i>	1

Question number	Answer	Notes	Mark
28b	$x = 4$	B1	1

Question number	Answer	Notes	Mark
28c	10	M1 for 15 or 12 correctly seen Or " 15 " - " 12 " + 7 (from correct method) A1 cao <i>DO NOT award any marks for $35 - 43 + 7$ or 15 or 12 on the answer line</i>	2

Question number	Answer	Notes	Mark
29a		B1	1

Question number	Answer	Notes	Mark
29b	72	M1 fully correct method e.g. $6 \times 4 \times 3 (=72)$ or $"24" \times 3$ or $"12" \times 6$ or $"18" \times 4$ A1 cao	2

Question number	Answer	Notes	Mark
30	0.04 0.4(0) 0.44 4.04	B1	1

Question number	Answer	Notes	Mark
31a	$4\frac{2}{3}$	B1	1

Question number	Answer	Notes	Mark
31b	$\frac{21}{8}$	B1	1

Question number	Answer	Notes	Mark
32a	12	B1	1

Question number	Answer	Notes	Mark
32b	11	B1	1

Question number	Answer	Notes	Mark
33	176	<p>M1 for a correct first step to solving the division e.g. <u>Short division</u> 1 r13 (with 13 correctly placed between the 1 and the 6)</p> $18 \overline{) 31^{13}68}$ <p><u>Long division</u> 1 seen AND 18 subtracted from 31 AND the 6 brought down alongside "13"</p> $\begin{array}{r} 1 \\ 18 \overline{) 3168} \\ \underline{18} \\ 136 \\ \underline{136} \\ 0 \end{array}$ <p>A1 cao</p>	2

Question number	Answer	Notes	Mark
34a	Diameter drawn	B1	1

Question number	Answer	Notes	Mark
34b	3	B1	1

Question number	Answer	Notes	Mark
35a	128.4	B1	1

Question number	Answer	Notes	Mark
35b	126.3	<p>M1 for $168.4 \div 4$ or ("$168.4 \div 4$") x3 or $168.4 \times 3 (= 505.2)$ or $\frac{75}{100} \times 168.4 (= \frac{12630}{100})$</p> <p>or 42.1 seen</p> <p>A1 cao</p>	2

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Question number	Answer	Notes	Mark
36	No & \$11.02 or No & \$0.02 too expensive Or \$11.02 and 'not enough'	M1 for a correct method to find the cost of 6 strawberries or 3 oranges e.g. $0.45 \times 6 (= "2.70")$ or $0.45+0.45+0.45+0.45+0.45+0.45(="2.70")$ or $1.69 \times 3 (= "5.07")$ or $1.69+1.69+1.69 (= "5.07")$ M1 for a complete method to find the total for a. fruit e.g. $3.25 + "2.70" + "5.07" (=11.02)$ A1 No AND a correct answer	3

