

Mark Scheme (Results)

Summer 2013

PLSC Primary Mathematics (Year 6)
JMA01 Paper 01

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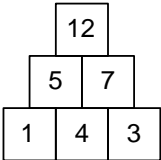
General Marking Guidance

- 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.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

Section A

Question Number	Answer	Mark
1	D	1
2	B	1
3	D	1
4	B	1
5	C	1
6	D	1
7	A	1
8	A	1
9	B	1
10	D	1
11	B	1
12	C	1
13	D	1
14	C	1
15	A	1
16	A	1
17	C	1
18	B	1
19	A	1
20	C	1

Section B

Question Number	Working	Answer	Mark	Notes										
21	Award 2 marks for any correct pyramid, for example,		2	M1 A1 Award 1 mark for a middle row totalling 12										
22(a)		25	1	B1										
22(b)		Vertical 10 8 6 4 2 0 Y, R, B, G Horizontal yellow – red – blue - green	1 1	B1 B1 Accept Y, R, B, G or any unambiguous indication of the correct colours										
23	$17 \div 4$ $14 \div 3$ $17 \div 5$ $21 \div 4$ $21 \div 5$		2	B2 - Award 2 marks for 2 correct answers with no additional answers. B1 - Award 1 mark for 2 correct answers with 1 additional answer or 1 correct answer and no additional answers.										
24	<table border="1" data-bbox="360 1615 968 1899"> <tr> <td>0 lines of symmetry</td> <td>1 line of symmetry</td> <td>2 lines of symmetry</td> <td>3 lines of symmetry</td> <td>4 lines of symmetry</td> </tr> <tr> <td>B</td> <td>D</td> <td>C</td> <td></td> <td>A</td> </tr> </table>	0 lines of symmetry	1 line of symmetry	2 lines of symmetry	3 lines of symmetry	4 lines of symmetry	B	D	C		A		2	B2 - Award <u>2 marks</u> for <u>4</u> correct entries. B1 - Award <u>1 mark</u> for <u>3</u> correct entries. Letters repeated in more than one box = 0 marks
0 lines of symmetry	1 line of symmetry	2 lines of symmetry	3 lines of symmetry	4 lines of symmetry										
B	D	C		A										
25		5:15	1	B1										
26		43	1	B1										

Question Number	Working	Answer	Mark	Notes
27		Shape 2	1	B1 Accept any clear indication.
28	$\$2.00 - 20c =$ $(\$1.80)$ $\$1.80 \div 3$	60 cents or \$0.60	2	M1 A1 SCB1: 0.6, £60, \$60 (accept any currency units)
29	30% of 30 or 30% on the answer line or $\frac{1}{2} \rightarrow 15$ and $20\% \rightarrow 6$ $30 - (15 + 6)$	9	2	M1 A1 SCB1: 12 with working showing $\frac{1}{5}$ or 20% of 15 seen OR 21 as 70% with working seen
30	A bar to show 7 students choose chocolate +/-2 mm (shading is not required)		1	B1
31		9	1	B1
32	$5.9 \times 2 = 11.8$ $11.8 - 9.9$	1.9	2	M1 A1
33	$15 \div 3 = 5$ $5 \times 2 = 10$	10	2	M1 Accept for 1 mark evidence of a complete method or Sight of 5 (with no incorrect working) A1

Question Number	Working	Answer	Mark	Notes
34	Every 15 customers received free crayons and paints $60 \div 15 = 4$ or 15, 30, 45, 60	4	2	B1 15 B1 4
35		2, 4, 6	1	B1
36	Kiki's graph An explanation that the graph uses a better scale , is easier to read or more clear .		2	B1 B1 (dep)
37		30		B1
38		1, 3, 3 or 3, 3, 5	2	B1 – mode of 3 B1 – range of 2
39	$1000 \div 45 (= 22)$ (remainder) Accept trial and improvement e.g. $20 \times 45 = 900$ $21 \times 45 = 945$ $22 \times 45 = 990$	22	2	M1 A1 Accept any complete and correct method or sight of (\$)9.90 or 990 for 1 mark
40(a)		impossible	1	B1
40(b)		Arrow pointing to middle of line	1	B1
41	$12 \times 12 (= 144)$ and $6 \times 6 (= 36)$ and "144" – "36" or 36×3	108 (cm ²)	2	M1 A1
42(a)		80° or 140° Accept 40° or 70°	1	B1

Question Number	Working	Answer	Mark	Notes
42(b)		9	1	B1
42(b)	Explanation that shows <u>$360 \div "40"$</u> or <u>$360 \div "70"$</u>		1	B1 Accept follow through using half of answer to (a) Except where a = 40° or 70°
43		$2 \times 0.1 = 0.2$		B1

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