

Mark Scheme (Final)

Summer 2015

PLSC Maths Year 6 (JMA01 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.

## Section A

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

## Section B

Question number	Working	Answer	Mark	Notes
21		Right-angle Triangle	1	B1 accept any right angle triangle as long as the given side is used.
22		606	1	B1
23		1, 2, 3, 4, 6, 8, 12, 24	2	B2 all 8 factors correct (with no incorrect responses)  B1 for 5 or more correct factors (with no incorrect responses) OR all 8 factors correct with 1 or 2 incorrect extras
24				
i)		9	1	B1
ii)		5	1	B1
25				
i)		$\frac{2}{8}, \frac{3}{12}, \frac{5}{20}$	1	1 mark for all 3 correct
ii)		eg $\frac{4}{6}, \frac{6}{9}, \frac{8}{12}, oe$	2	1 mark for <b>each</b> correct equivalent fraction
26		26 cm	1	B1
27		Right angle Obtuse Acute Reflex	1	1 mark for all three correct responses
28		2.25 2.5 5.02 5.25 5.5	2	B2 all correct  B1 award one mark for one incorrect answer, as long as the remaining 4 responses are in the correct order (ignoring the incorrect response)
29	1/3 of 30 (= 10) 20% of 30 (= 6)  30 – (10+6) = 14	14	2	M1 30 – '(10 + 6)' or 16 or 10 <b>and</b> 6 seen  A1 cao
30		36 81 16	1	B1 for all 3 correct answers identified

31		817 cm	1	B1  <b>Accept</b> 8.17 metres <b>or</b> 8 m 17 cm only if correct m / cm have been added in their answer
32	Any correct process worked through fully	154	2	M1 award 1 mark for <b>any</b> correct method to solve the calculation <u>worked through</u> <u>fully</u> (accept calculation errors as long as the method is correct)  A1 cao
33		Unlikely	1	B1
34				
i)		14	2	B1
ii)		8		B1
35		9 65	2	B1 B1
36				
i)		$4a + 3b$	2	B1
ii)		$7x - 2y$		B1
37				
i)		5	2	B1
ii)		6.2		B1
38	$180^\circ - 115^\circ (= 65^\circ)$ $90^\circ + 65^\circ (= 155^\circ)$  $180^\circ - 155^\circ (= 25^\circ)$  OR  $115^\circ - 90^\circ = 25^\circ$	$25^\circ$	2	M1  $180^\circ - 115^\circ (= 65)$ or $180^\circ - '155'$ or $65^\circ$ <b>or</b> $155^\circ$ seen  A1 cao
39				
i)		( 3 , -2 )	2	B1
ii)		( 1 , 0 )		B1
40 a	$1/4 = 2/8$ $5/8 - 2/8 = 3/8$	$\frac{3}{8} oe$	3	B1 fraction answer
40 b				
i)	$1/6 + 3/6 = 4/6$ oe $1 - 4/6 = 2/6 (= 1/3)$	$\frac{1}{3} oe$		B1 fraction answer
ii)		16		A1 16 or $2/3$ oe or ft from b(i)

<p><b>41</b> i) ii) iii)</p>		<p>Fully correct table 4 3</p>	<p>3</p>	<p>B1 B1 ft (from a complete table) B1 ft (from a complete table)</p>
<p><b>42</b></p>	<p>Any correct process worked through fully</p>	<p>23458</p>	<p>2</p>	<p>M1 award 1 mark for <b>any</b> correct method to solve the calculation <i>worked through fully</i> (accept calculation errors as long as the method is correct)  A1 cao  <b>NB</b> award 0 marks if place value error made</p>