

# Mark Scheme (Results)

Summer 2016

Pearson Edexcel PLSC Mathematics  
Year 6 (JMA01/01)

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Publications Code JMA01\_01\_1606\_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.
- 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	A	1
4	D	1
5	B	1
6	C	1
7	B	1
8	D	1
9	C	1
10	C	1
11	D	1
12	A	1
13	A	1
14	C	1
15	C	1
16	C	1
17	C	1
18	C	1
19	A	1
20	D	1

## Section B

Question number	Working	Answer	Mark	Notes
<b>21</b>		Correctly reflected shape	1	B1
<b>22</b>		$\frac{1}{2} \rightarrow 5/10$ $\frac{1}{3} \rightarrow 2/6$ $\frac{3}{4} \rightarrow 75/100$ $\frac{5}{8} \rightarrow 10/16$	1	B1 for all correct pairs
<b>23</b>		Correctly ordered number line	2	B2 all numbers correct Accept candidates own scale as long as correct  B1 for: -5, -3 and any other number correct <b>OR</b> 5 correct numbers with extra incorrect numbers
<b>24</b> i)		9	2	B1
ii)		8		B1
<b>25</b>		9	1	B1
<b>26</b> i)		$68^\circ$	3	B1
ii)		$105^\circ$		B1
iii)		$240^\circ$		B1 <b>Allow +/- 2° tolerance</b>
<b>27</b> i)		Friday	1	B1
ii)	M: 36 - 40 T: 16 W: 28 - 32	80 - 88	2	M1 attempt to add appropriate 3 values  A1 80 – 88
<b>28</b>		32, 48 and 56	1	B1 all correct

29		<table border="1"> <thead> <tr> <th>Frac</th> <th>Dec</th> <th>%</th> </tr> </thead> <tbody> <tr> <td><math>\frac{1}{2}</math></td> <td><b>0.5</b></td> <td>50%</td> </tr> <tr> <td><math>\frac{1}{10}</math></td> <td>0.1</td> <td>10%</td> </tr> <tr> <td><math>\frac{35}{100}</math></td> <td>0.35</td> <td><b>35%</b></td> </tr> <tr> <td><math>\frac{11}{25}</math></td> <td><b>0.44</b></td> <td><b>44%</b></td> </tr> </tbody> </table>	Frac	Dec	%	$\frac{1}{2}$	<b>0.5</b>	50%	$\frac{1}{10}$	0.1	10%	$\frac{35}{100}$	0.35	<b>35%</b>	$\frac{11}{25}$	<b>0.44</b>	<b>44%</b>	2	<p>B2 for 5 or 6 correct answers</p> <p>B1 for at least one correct answer in each column</p>
Frac	Dec	%																	
$\frac{1}{2}$	<b>0.5</b>	50%																	
$\frac{1}{10}$	0.1	10%																	
$\frac{35}{100}$	0.35	<b>35%</b>																	
$\frac{11}{25}$	<b>0.44</b>	<b>44%</b>																	
30		Triangular based pyramid	2	<p>B2 Triangular (Based) Pyramid <b>OR</b> Tetrahedron</p> <p>B1 for Pyramid only</p>															
31		16	1	B1															
32		46	1	B1															
33		4 $\frac{3}{4}$	1	B1															
34		20 cm <sup>2</sup>	1	B1															
35			3																
i)		32		B1															
ii)		2		B1															
iii)		390		B1															
36	<p>S = 7 M = 9 L = 5</p>	Correctly completed frequency table	3	<p>B1 correct column heading</p> <p>B1 correct tallies</p> <p>B1 ft correct frequencies</p>															
37	<p>160 ÷ 8 (=20) 5 x "20" (=100) 3 x "20" (=60)</p> <p>"100" – "60" (= "40")</p> <p>OR</p> <p>2/8 of 160 (=40)</p>	\$40	2	<p>M1 for: complete method <b>OR</b> sight of 100 and 60 <b>OR</b> ft "100" – "60"</p> <p>A1</p>															
38	<p>70 + 70 (= 140)</p> <p>180 – "140"</p>	40°	2	<p>M1 180 – "140"</p> <p>A1</p>															

<b>39</b>		$x = 2$ and $y = 5$	1	B1  Accept an unambiguous identification of $x=2$ and $y=5$
<b>40</b> i)  ii)  iii)	HH, HT, TH, TT (in any order)	Complete and correct table  $\frac{1}{2}$ , 50%, 0.5 o.e.  even	3	B1  B1  B1 ft from (i) or (ii)
<b>41</b>		$6x - 12$	1	B1
<b>42</b> a)  b)		34, 40  $6n - 2$	1  2	B1  B2  B1 $6n$ OR $n=6n-2$

