

Westminster Cathedral Choir School 7+ Mathematics Exam Paper Answers

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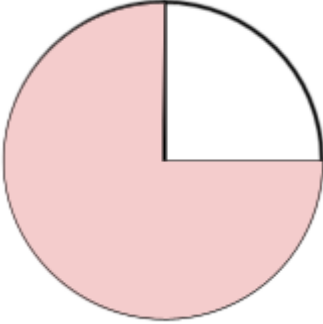
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Westminster Cathedral Choir School 7+ Mathematics
Exam Paper Answers

Question	Answer All answers are worth one mark, unless stated otherwise.
1	30 <i>2 marks</i>
2	82, 94, 306, 714 <i>2 marks</i> <i>(1 mark for each 2 in correct order)</i>
3	Four hundred and thirty-seven <i>2 marks</i>
4	7 <i>2 marks</i>
5	2 <i>2 marks</i>
6	17 <i>2 marks</i>
7	25 <i>2 marks</i>
8	105 <i>2 marks</i>
9	17 <i>2 marks</i>
10	28 <i>2 marks</i>
11	63 <i>2 marks</i>
12	19 <i>2 marks</i>
13	13 19+6=25 12+13=25 <i>2 marks</i>
14	14 15+7=22 36-14=22 <i>2 marks</i>

15	<p style="text-align: center;">9 $15+22=37$ $37+9=46$</p>	<i>2 marks</i>
16	18	<i>2 marks</i>
17	35	<i>2 marks</i>
18	9	<i>2 marks</i>
19	24	<i>2 marks</i>
20	42	<i>2 marks</i>
21	16	<i>2 marks</i>
22	5	<i>2 marks</i>
23	<p style="text-align: center;">23 $12+11=23$</p>	<i>2 marks</i>
24	<p style="text-align: center;">33 $25+8=33$</p>	<i>2 marks</i>
25	<p style="text-align: center;">6 $30\div 5=6$</p>	<i>2 marks</i>
26	<p style="text-align: center;">40 $5\times 8=40$</p>	<i>2 marks</i>
27	<p style="text-align: center;">9 +2 each time</p>	<i>2 marks</i>
28	<p style="text-align: center;">25 +4 each time</p>	<i>2 marks</i>
29	<p style="text-align: center;">15 Increases by 1, then 2, then 3...</p>	<i>2 marks</i>

30		5 ÷2 each time	<i>2 marks</i>
31		10 Reduces by 2, then 4, then 6, then 8...	<i>2 marks</i>
32			<i>2 marks</i>
33	a	1/2	<i>2 marks</i>
	b	1/4	<i>2 marks</i>
	c	3/4	<i>2 marks</i>
34		9 $12 \div 4 = 3$ $3 \times 3 = 9$	<i>2 marks</i>
35		£2.10 $1.40 + 0.70 = 2.10$	<i>2 marks</i>
36		£2.40 $5.00 - 2.60 = 2.40$	<i>2 marks</i>
37		£2.70 $4.50 - 0.90 - 0.90 = 2.70$	<i>2 marks</i>
38		20	<i>2 marks</i>
39		90	<i>2 marks</i>
40		250 1m = 100cm	

		2.5m = 250cm	2 marks									
41		200cm	2 marks									
42	a	3:30	1 mark									
	b	8:15	1 mark									
43	a	30 minutes	1 mark									
	b	48 hours	1 mark									
44		7:15pm 7:30-15 mins = 7:15	2 marks									
45		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>11</td> <td>20</td> <td><u>9</u></td> </tr> <tr> <td><u>20</u></td> <td>24</td> <td><u>22</u></td> </tr> <tr> <td>9</td> <td>22</td> <td>13</td> </tr> </table> <p>There are two ways of thinking about this.</p> <ol style="list-style-type: none"> The two outside numbers add together to make the number in the middle. The third number in the line equals the difference between the first two numbers in the line. 	11	20	<u>9</u>	<u>20</u>	24	<u>22</u>	9	22	13	2 marks
11	20	<u>9</u>										
<u>20</u>	24	<u>22</u>										
9	22	13										
46		<p style="text-align: center;">49p</p> <p style="text-align: center;">Smallest = $1p + 2p + 5p + 10p + 20p = 38p$ Largest = $50p + 20p + 10p + 5p + 2p = 87p$ $87-38= 49p$</p>	2 marks									
47		<p style="text-align: center;">B</p> <p style="text-align: center;">Direction of the semicircle alternates and the number lines increases by 1 each time.</p>	2 marks									
48		<p style="text-align: center;">B</p> <p style="text-align: center;">Going downwards in each column, the first two images are combined to make the third.</p>	2 marks									
<i>Total</i>		<i>/100</i>										

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