

# 11+ Independent Style Mathematics Paper 1 Answers

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Question		Answer All answers are worth one mark, unless stated otherwise.
1	a	12
	b	6
	c	4
	d	-10 $30 / -3 = -10$ <i>(2 marks)</i>
2	a	31, 37, 41, 43, 47
	b	71, 73, 79, 83, 89
	c	False 2 is a prime number. Anything multiplied by 2 is always even.
3	a	9
	b	6
4		4 pm The LCM of 0.25, 0.4 and 0.5 is 2.0. <i>(2 marks)</i>
5	a	$7^5$ When multiplying, add the powers.
	b	$7^3$ When dividing, subtract the powers.
	c	$7^8$
	d	$7^8$ When using brackets, the powers are multiplied.
6		32g $652 - 140 = 512$ $512 / 16 = 32$ <i>(2 marks)</i>
7		E 2 sides are removed, but 2 sides are exposed, so the perimeter is unchanged.

8	a	3m
	b	15g
	c	$7s + 5t$
9	a	23 $3 \times 9 - 4$
	b	33 $4 \times -3 + 9 \times 5$
10	a	$x + 4$
	b	$2x$
11	a	35 minutes
	b	14 minutes $31 - 17$
	c	44 mins $31 + 13$
12	a	4
	b	$\frac{2}{3}$ $46 + 6 + 4 + 27 = 80$ $80/120 = \frac{2}{3}$
	c	18 $80 + 13 + 5 + 4 = 102$ $120 - 102 = 18$
	d	50% $43 + 13 + 4 = 60$ $60/120 = 50\%$
13		$\frac{7}{20}$ $\frac{1}{4} + \frac{3}{20} = \frac{13}{20}$ $1 - \frac{13}{20} = \frac{7}{20}$
14	a	70%
	b	65%
	c	30%
	d	25%

15	a	<p><b>21 m</b>  <math>6.5 + 6.5 + 4 + 4 = 21</math></p>
	b	<p><b>94 tiles</b>                      Area = <math>4 \times 4.5 + 2.75 \times 2 = 23.5</math>  <math>0.5 \times 0.5 = 0.25</math>  <math>23.5 / 0.25 = 94</math></p> <p><i>(3 marks)</i></p>
16		<p><b>60°</b>  <math>4a + 5a + 6a + 3a = 360</math>  <math>a = 360 / 18 = 20</math>  <math>3a = 60</math></p> <p><i>(2 marks)</i></p>
17	a	$x > -3$
	b	$-4 \leq x \leq 2$
	c	$-2 < x \leq 0$
18	a	<p><b>65 / 360 = 13/72</b>  <math>2x + x - 8 + x + 3 + x = 360</math>  <math>5x - 5 = 360</math>  <math>5x = 365</math>  <math>x = 73</math>  <math>73 - 8 = 65</math></p> <p><i>(3 marks)</i></p>
	b	<p><b>76/360 = 19/90</b>  <math>x = 73</math>  <math>73 + 3 = 76</math></p>
19	a	<b>4</b>
	b	<b>4</b>
	c	<p><b>2</b>  <math>6 - 4</math></p>
20	a	<p><b>88.5 cm<sup>2</sup></b>  <math>5.5 \times 7 + 5 \times 10 = 88.5</math></p>
	b	<p><b>44 cm</b>  <math>5.5 + 7 + 4.5 + 5 + 10 + 12 = 44</math></p>
21	a	<p><b>54 cm<sup>3</sup></b>  <math>3 \times 9 \times 2 = 54</math></p>
	b	<p><b>102 cm<sup>2</sup></b>  <math>27 \times 2 + 18 \times 2 + 6 \times 2 = 102</math></p>

22	a	3 km
	b	15 mins
	c	15 mins
	d	12 km/h 3 km in 15 mins, so 12 km in 1 hour
	e	20 mins
	f	4 km
	g	12 km/h 4 km in 20 mins, so 12 km in 1 hour
<i>Total</i>		<i>/65</i>

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