

# 11+ Independent Style Mathematics Paper 1 Answers

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Q	part	Answer
1	a	12
	b	6
	c	4
	d	-10 $30 \div -3 = -10$
2	a	31, 37, 41, 43, 47
	b	71, 73, 79, 83, 89
	c	<b>False</b> 2 is a prime number. Anything multiplied by 2 is always even.
3	a	9
	b	6
4		<b>4 pm</b> The LCM of 0.25, 0.4 and 0.5 is 2.0.
5	a	<b><math>7^5</math></b> When multiplying, add the powers.
	b	<b><math>7^3</math></b> When dividing, subtract the powers.
	c	<b><math>7^8</math></b>
	d	<b><math>7^8</math></b> When using brackets, the powers are multiplied.
6		<b>32g</b> $652 - 140 = 512$ $512 \div 16 = 32$
7		<b>E</b> 2 sides are removed, but 2 sides are exposed, so the perimeter is unchanged.
8	a	<b>3m</b>
	b	<b>15g</b>

	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		$\frac{7}{20}$ $\frac{1}{4} + \frac{3}{8} = \frac{13}{20}$ $1 - \frac{13}{20} = \frac{7}{20}$
14	a	70%
	b	65%
	c	30%
	d	25%
15	a	21 m $6.5 + 6.5 + 4 + 4 = 21$
	b	94 tiles

		$\text{Area} = 4 \times 4.5 + 2.75 \times 2 = 23.5$ $0.5 \times 0.5 = 0.25$ $23.5 / 0.25 = 94$
16		$60^\circ$ $4a + 5a + 6a + 3a = 360$ $a = 360 / 18 = 20$ $3a = 60$
17	a	$x > -3$
	b	$-4 \leq x \leq 2$
	c	$-2 < x \leq 0$
18	a	$65 / 360 = 13/72$ $2x + x - 8 + x + 3 + x = 360$ $5x - 5 = 360$ $5x = 365$ $x = 73$ $73 - 8 = 65$
	b	$76/360 = 19/90$ $x = 73$ $73 + 3 = 76$
19	a	$4$
	b	$4$
	c	$2$ $6 - 4$
20	a	$88.5 \text{ cm}^2$ $5.5 \times 7 + 5 \times 10 = 88.5$
	b	$44 \text{ cm}$ $5.5 + 7 + 4.5 + 5 + 10 + 12 = 44$
21	a	$54 \text{ cm}^3$ $3 \times 9 \times 2 = 54$
	b	$102 \text{ cm}^2$ $27 \times 2 + 18 \times 2 + 6 \times 2 = 102$
22	a	$3 \text{ km}$
	b	$15 \text{ mins}$
	c	$15 \text{ mins}$

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

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