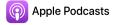# 11+ Independent Style Mathematics Paper 1 Answers

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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 *(2 marks)*
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. *(2 marks)*
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 *(2 marks)*
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 x 9 - 4
	b	33 4 x -3 + 9 x 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	2/3 46 + 6 + 4 + 27 = 80 80/120 = 2/3
	c	18 80 + 13 + 5 + 4 = 102 120 - 102 = 18
	d	50% 43 + 13 + 4 = 60 60/120 = 50%
13		7/20 ¼ + ⅖ = 13/20 1 - 13/20 = 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** Area = 4 x 4.5 + 2.75 x 2 = 23.5 0.5 x 0.5 = 0.25 23.5 / 0.25 = 94 *(3 marks)*		
16		**60°** 4a + 5a + 6a + 3a = 360 a = 360 / 18 = 20 3a = 60 *(2 marks)*		
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 *(3 marks)*		
	b	**76/360 = 19/90** x = 73 73 + 3 = 76		
19	a	**4**		
	b	**4**		
	c	**2** 6 - 4		
20	a	**88.5 cm^2** 5.5 x 7 + 5 x 10 = 88.5		
	b	**44 cm** 5.5 + 7 + 4.5 + 5 + 10 + 12 = 44		
21	a	**54 cm^3** 3 x 9 x 2 = 54		
	b	**102 cm^2** 27 x 2 + 18 x 2 + 6 x 2 = 102		

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
Total		*/65*

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