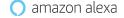
11+ Independent Style Mathematics Paper 1 Answers

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Question		Answer All answers are worth one mark, unless stated otherwise	⊋.
1	a	12	
	Ь	6	
	С	4	
	d	-10 30 / -3 = -10	(2 marks)
2	a	31, 37, 41, 43, 47	
	Ь	71, 73, 79, 83, 89	
	С	False 2 is a prime number. Anything multiplied by 2 is always	even.
3	a	9	
	Р	6	
4		4 ρm The LCM of 0.25, 0.4 and 0.5 is 2.0.	(2 marks)
5	a	7 5 When multiplying, add the powers.	
	Q	7 ³ When dividing, subtract the powers.	
	C	7 ⁸	
	ъ	7^8 When using brackets, the powers are multiplied.	
6		329 652 - 140 = 512 512 / 16 = 32	(2 marks)
7		E 2 sides are removed, but 2 sides are exposed, so the peri unchanged.	



8	a	3m
	J	159
	С	7s + 5t
9	a	23 3 x 9 - 4
	Ь	33 4 × -3 + 9 × 5
10	a	x + 4
	۵	2x
11	a	35 minutes
	Ь	14 minutes 31 - 17
	С	44 mins 31 + 13
12	a	4
	σ	2/3 46 + 6 + 4 + 27 = 80 80/120 = 2/3
	С	18 80 + 13 + 5 + 4 = 102 120 - 102 = 18
	Р	50% 43 + 13 + 4 = 60 60/120 = 50%
13		7/20 ¹ / ₄ + % = 13/20 1 - 13/20 = 7/20
14	a	70%
	Q	65%
	С	30%
	d	25%

	I	<u></u>
15	а	21 m 6.5 + 6.5 + 4 + 4 = 21
	Ь	94 tiles Area = 4 × 4.5 + 2.75 × 2 = 23.5 0.5 × 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
	Ь	-4 ≤ x ≤ 2
	С	-2 < x ≤0
18	a	13/100 2x + x - 8 + x + 3 + x = 100 5x - 5 = 100 5x = 105 x = 21 21 - 8 = 13 13/100
		(3 marks)
	Ь	6/25 x = 21 21 + 3 = 24 24/100 = 6/25
19	a	4
	Ь	4
	С	2 6 - 4
20	а	88.5 cm ² 5.5 x 7 + 5 x 10 = 88.5
	Ь	44 cm 5.5 + 7 + 4.5 + 5 + 10 + 12 = 44
21	a	54 cm ³ 3 x 9 x 2 = 54



	Ь	102 cm ² 27 × 2 + 18 × 2 + 6 × 2 = 102
22	a	3 km
	Ь	15 mins
	С	15 mins
	d	12 km/h 3 km in 15 mins, so 12 km in 1 hour
	е	20 mins
	f	4 km
	9	12 km/h 4 km in 20 mins, so 12 km in 1 hour
Total		/65

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