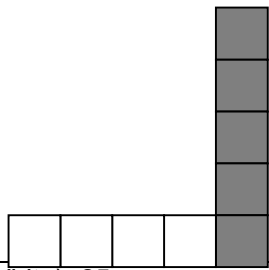


**Y7 Spring KAP P2 Mark Scheme**

1(a)		B1	Any clear indication
1(b)	(White) 25 (Grey) 26	B1 B1ft	ft their 25 + 1
1(c)	Always an odd number added to an even number (which makes an odd number)	B1	oe eg1 Starts odd and adding two each time (which stays odd) eg2 Always one more grey than white so double and add one (which is always odd) eg3 $x + x + 1 = 2x + 1 = \text{odd}$

2	Links to Rectangle	B1	
	Links to Cuboid	B1	
	Links to Hexagon	B1	
	Links to Cylinder	B1	

3	30	B1	
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4	$b$	B1	
	$c$ or $e$ or both	B1	B0 If one correct and one incorrect given
	$a$ or $d$ or both	B1	B0 If one correct and one incorrect given

5	6 under 3	B1	
	4 above 8	B1	
	Any fraction equivalent to $\frac{1}{2}$ except those already used	B1	

6(a)	Draws correct triangle	B1	
6(b)	Draws correct triangle	B1	
6(c)	Angles will total more than $180^\circ$ or Lines will not meet (with diagram given)	B1	

7(a)	180 000	B1	
7(b)	1 800 000	B1	
7(c)	1800	B1	
7(d)	1 600 002	B1	

8	Lists at least three multiples of 3 or lists at least three factors of 45	M1	
	3, 9, 15 and 45	A2	A1 for 3 and 45 or 9 or 15

9(a)	$140 \div 5 \times 2$	M1	oe
	56	A1	
9(b)	Their $(140 - 56) \div 4 \times 3$	M1	oe
	63	A1ft	ft their 56 SC1 42

10	$8 - 1.6(0) \times 2 (= 3.2(0))$	M1	
	4.8(0)	A1	
	Their $4.8 \div 4$	M1	
	1.20	A1ft	Ft their 4.8 Do not accept 1.2

11	73	B1	
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12	-21	B1	
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13	3	B1	
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14(a)	4a	B1	
14(b)	16	B1	

15(a)	$n + 20$	B1	
15(b)	$2n$	B1	
15(c)	$n - 5$	B1	

16(a)	+ - +	B2	B1 For - in middle box or + in 1st <b>and</b> 3rd
16(b)	- + +	B2	B1 For + in middle box or - in 1st <b>and</b> + in 3rd

17	First links to Fibonacci Sequence Second links to Geometric Sequence Third links to Arithmetic Sequence	B2	B1 1 correct
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18(a)	19	B1	
18(b)	80	B1	
18(c)	202	B1	