1 (a)		60	1	B1	for 60	
(b)	3 × 6 (=18)		2	M1	for 3 × 6 (=18)	
		20		A1	for 20	
(c)		+3	1	B1	8	
					or $\times {5}$	
						Total 4 marks

2	(a)		13	1	B1	
	(b)	160 × 2 (=320)or "160 × 2" – 5 or		2	M1	One correct inverse operation used
		$"160 \times 2 - 5" \div 3$	105			
					A1	
	(c)		$P = \frac{3n+5}{2}$	2	B2	oe (B1 for $\frac{3n+5}{2}$ oe or $P = 3n + 5 \div 2$
						or for $P = a$ formula including n with
						2 operations correct eg $P = 3n + 5$ or
						for $n = \frac{2P - 5}{3}$ or $P = \frac{2n - 5}{3}$)
						Total 5 marks

3	(b)	$108 - 3$ (= 105) or $x \div 5$ where x is found value from first stage $(108 - 3) \div 5$ oe		2	M1	Allow $108 - 3 \div 5$ or $-3 \div 5$ with the correct order indicated eg with arrows
			21		A1	cao If no marks scored SCB1 for 107.4 or 543

4 (a)	38	1	B1
(b)	×3 or +12	1	B1

5	(a)		146	1	B1	
	(b)	$64 - 9 = 55$) or $(64 - 9) \div 11$ or $11x + 9 = 64$		2	M1	for working backwards from the output of 64 or setting up an equation
		Correct answer scores full marks (unless from obvious incorrect working)	5		Al	
						Total 3 marks