

1	(c)			2	M1 for $T = an + 20$ or $T = 9n + k$ or $9n + 20$
			$T = 9n + 20$		A1 for $T = 20 + 9n$ or $T = 9n + 20$

2	(c)		$T = 6g + 12h$	3	B3 for $T = 6g + 12h$ oe (B2 for $6g + 12h$ oe or $T = 6g + ah$ or $T = bg + 12h$ or $T = 12g + 6h$ oe) (B1 for $6g + ah$ or $bg + 12h$ or $12g + 6h$ or for an incorrect expression in g and h eg $T = g + h$)
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3		E.g. $12 \times 9 (=108)$ or $(9 - 6) \times x (=3x)$		4	M1 for one correct relevant area
		E.g. $129 - '108' (=21)$ or $'108' + '3x' = 129$ or			M1 dep on M1 for 129 used correctly with another area or for a correct equation (ft) with bracket(s) expanded
		E.g. $'21' + (9 - 6)$ or $x = \frac{129 - '108'}{3}$			M1 for a complete method
			7		A1
Total 4 marks					

4	(d)		$T = 10m + 6n$	3	B3 for $T = 10m + 6n$ oe (B2 for $10m + 6n$ or $T = 10m + an$ or $T = bm + 6n$ or $T = 6m + 10n$) (B1 for $10m + an$ or $bm + 6n$ or $6m + 10n$) or for $T =$ an incorrect expression in m and n
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5	(d)		$T = 40k + 15$	2	B2 B1 for $40k + 15$ or $T = 40k + a$ ($a \neq 15$) Accept $40 \times k$ etc
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6	(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 $P = \frac{2n-5}{3}$)
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7			$T = 0.2(12n + 50)$ oe	3	B3 for $T = 0.2(12n + 50)$ oe or $T = 0.2 \times (12n + 50)$ oe for $T = 0.2 \times (12 \times n + 50)$ oe or $T = \frac{12n+50}{5}$ oe or $T = 2.4n + 10$ oe B2 for $0.2(12n + 50)$ oe or $0.2 \times 12n + 50$ oe or $T = 0.2 \times 12n + 50$ oe or $T = n \times 12 + 50 \times 0.2$ oe or $T = 12n + 50 \div 5$ oe or $T = n(12) + 50(0.2)$ oe B1 for $n \times 12 + 50 \times 0.2$ oe or $12n + 50 \div 5$ oe or $n(12) + 50(0.2)$ oe or $T =$ a linear expression in n e.g. $T = n$
Total 3 marks					

8	(e)		$T = 15m + 40p$	3	B3 ((B2 for $15m + 40p$ or $T = 15m + xp$ or $T = ym + 40p$ or $T = 40m + 15p$) (B1 for $15m + xp$ or $ym + 40p$ or $40m + 15p$ or for $T =$ an incorrect expression in m and p eg $T = mp$) Allow $15 \times m$ or $m15$ etc
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9	(b)		$T = 200c - 50d$	3	B3 for $T = 200c - 50d$ oe (B2 for $T = 200c + kd$ or $T = kc - 50d$ or $200c - 50d$) (B1 for $200c$ or $-50d$ or $50d$ or $T = kc + pd$ where $k \neq 0$ or 200 and $p \neq 0$ or ± 50)
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10	(b)		$3x$	1	B1 allow $3 \times x$ or $x \times 3$ ft their “3” in (a)
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11			$F = 2r + 7h$	3	B3 for $F = 2r + 7h$ oe (B2 for $2r + 7h$ or $F = 2r + ah$ or $F = br + 7h$ or $F = 2h + 7r$) (B1 for $2r + ah$ or $br + 7h$ or $2h + 7r$ or $F = 2r$ or $F = 7h$ or for $F =$ an incorrect expression in r and h)
		Correct answer scores full marks (unless from obvious incorrect working)			Total 3 marks