

1	30	M1	$2 \times 9 + 3 \times 4$	May be shown in stages but an intention to add $2 \times 9$ and $3 \times 4$ must be clear
		A1	cao	

2	(a)	6 or -6	M1	for $12^2 + 2 \times -3 \times 18 (= 36)$	Terms may be partially evaluated. Only one value is required for full marks
			A1	for 6 or -6, accept $\pm 6$	
	(b)	$s = \frac{v^2 - u^2}{2a}$	M1	for subtracting $u^2$ from both sides or dividing all terms by $2a$ as the first step	Must see this step carried out, not just the intention shown
			A1	$s = \frac{v^2 - u^2}{2a}$ oe	

3	Shown (supported)	M1	for substitution eg $4 \times 110 + 12$	
		A1	for 452	
		M1	(dep M1) for method to find value(s) needed for comparison eg $\frac{"452"-442}{442} \times 100$ <b>OR</b> $\frac{5}{100} \times 442$ oe (= 22.1) <b>and</b> $"452" - 442 (= 10)$ <b>OR</b> $\frac{5}{100} \times 442 + 442$ oe (= 464.1) <b>and</b> "452"	
		C1	shown with correct comparable values eg 2.2(6...)(%) <b>OR</b> 22.1 <b>and</b> 10 <b>OR</b> 452 <b>and</b> 464.1	

4	6	M1	for $720 \div 40 (= 18)$ <b>or</b> $720 \div 30 (= 24)$	
		M1	for a complete process eg $(720 \div 30) - (720 \div 40)$ <b>or</b> "18" $\times 4/3$ - "18" <b>or</b> "24" - "24" $\times 3/4$	
		A1	cao	

5	35	M1	for $4 \times 8 (= 32)$	Award this mark if used ambiguously eg $4 \times 8 + 3 = 4 \times 11$ as long as $4 \times 8$ is stated
		A1	cao	

6	(a)	-10, -6, 2, 6	B2	for 4 values correct -10, -6, (-2), 2, 6, (10)	
			(B1)	for 2 or 3 values correct	
	(b)	Graph drawn	M1	(ft from (a) if B1 awarded) for at least 5 points correctly plotted.	
			A1	correct graph drawn from $x = -1$ to 4	

7	(a)	-13	M1	for substitution eg $3 \times 5$ and $4 \times -7$ <b>or</b> 15 and -28	3 $\times$ 5 (= 15) and 4 $\times$ -7 (= -28) may be seen separately but both must be seen for the award of M1 35 and 4-7 do not get the mark unless multiplication is shown eg 35 = 15 is evidence of multiplication and should not be seen as choice
			A1	cao	
	(b)	5	M1	for $38 = 3 \times 6 + 4y$ <b>or</b> $38 - 18 (= 20)$ <b>or</b> for a complete method to make $y$ the subject eg $y = \frac{T - 3x}{4}$	eg $y = (T - 3x) \div 4$
			A1	cao	