Paper: 1MA1/2H				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
15 **Q1**	$m = \frac{f+4}{f-3}$	M1 M1 A1	for multiplying both sides by $m - 1$, eg. $f(m - 1) = 3m + 4$ (dep) for a method to rearrange the formula to isolate terms in m in a correct equation, eg. $fm - 3m = f + 4$ **or** $-fm + 3m = -f - 4$ for $m = \frac{f+4}{f-3}$ oe, eg $m = \frac{-f-4}{-f+3}$	Condone missing brackets for this mark only

Paper: 1MA1/1H				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
17 **Q2**	$f = \frac{4d+3}{d+3}$	M1 M1 M1 A1	for clearing the fraction eg $d(f-4) = 3(1-f)$ **or** $df - 4d = 3 - 3f$ (dep M1) for isolating f terms in a correct equation eg $df + 3f = 3 + 4d$ (dep on two terms in f) for factorising eg $f(d+3) = 3 + 4d$ oe	Condone error in expansion of RHS for this mark

Paper: 1MA1/1H				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
11 **Q3**	$\frac{30w}{6-21w}$	P1 P1 P1 A1	for forming an equation, eg $6(2w + y) = 7w(3y + 6)$ **or** $12w + 6y = 21wy + 42w$ oe for expanding brackets correctly and gathering w terms or isolating y terms in a correct equation, eg $6y = 21wy + 30w$ **or** $6y - 21wy = 42w - 12w$ **or** $6y - 21wy = 30w$ (dep on two terms in y) for factorising out the y, eg $y(6 - 21w) = 42w - 12w$ **or** $y(6 - 21w) = 30w$ **or** $3y(2 - 7w) = 30w$ for $(y =) \frac{30w}{6-21w}$ oe	Condone missing brackets for this mark

Paper: 1MA1/1H				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
2 (a)	6 or –6	M1	for $12^2 + 2 \times -3 \times 18$ (= 36)	Terms may be partially evaluated.
		A1	for 6 or –6, accept ±6	Only one value is required for full marks
(b) **Q4**	$s = \frac{v^2 - u^2}{2a}$	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	

Paper: 1MA1/1H				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
12 **Q5**	Mistake identified	C1	for a correct mistake identified **Acceptable examples** all three terms should be multiplied by 2 and not just two of them the 5 should be multiplied by 2 it should be $2 \times T = q + 2 \times 5$ should subtract 5 first (before multiplying by 2) **Not acceptable examples** Should remove the 5 first $2 \times T$ should be $2T$ should have got rid of the denominator	Accept answers showing a correct first step

Paper: 1MA1/2H				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
8 **Q6**	6	M1 M1 A1	for 720 ÷ 40 (= 18) **or** 720 ÷ 30 (= 24) for a complete process eg (720 ÷ 30) – (720 ÷ 40) **or** "18" × 4/3 – "18" **or** "24" – "24" × 3/4 cao	

Paper: 1MA1/2H				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
10 **Q7**	$k = 2m - y^2$	M1 A1	correct first step of showing an intention to square both sides with no algebraic ambiguity in any resulting statements, eg $y^2 = 2m - k$ for $k = 2m - y^2$	

Paper: 1MA1/3H				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
1 **Q8**	$a = \frac{p+9}{3}$	M1 A1	for correct first step to rearrange, eg $p + 9 = 3a - 9 + 9$ or $\frac{p}{3} = \frac{3a-9}{3}$ oe or answer ambiguously shown eg $a = p + 9 \div 3$ or answer given as $\frac{p+9}{3}$ oe oe	May be seen in different equivalent forms but must be carried out, not just intention seen.

Paper: 1MA1/3H				
Question	**Answer**	**Mark**	**Mark scheme**	**Additional guidance**
2 (a)	25	M1	for $(T =)\ 4 \times (-3)^2 - 11$ or $4 \times (-3)^2 = 36$	Can accept missing brackets.
		A1	cao	
Q9 (b)	$p = \frac{d-4}{3}$ oe	M1	for a correct first step, eg. $d - 4 = 3p$ or $\frac{d}{3} = p + \frac{4}{3}$ or for $\frac{d-4}{3}$ as answer	May be in unsimplified form, eg $d - 4 = 3p + 4 - 4$
		A1	for $p = \frac{d-4}{3}$ oe	

Paper 1MA1: 3H				
Question	**Working**	**Answer**	**Mark**	**Notes**
14 (a) **Q10**		$\frac{x+4}{2x+3}$	M1 M1 A1	Factorising the denominator $(2x \pm 3)(x \pm 4)$ or $2\left(x \pm 1\frac{1}{2}\right)(x \pm 4)$ Factorising the numerator $(x-4)(x+4)$ oe
(b)		$v = \frac{15t}{w+30}$	M1 M1 A1	A correct step towards solution e.g. expanding brackets to get $15t - 30v$ or multiply both sides by v For a method to rearrange the formula to isolate terms in v eg $vw + 30v = 15t$ oe