6 (a)	eg $2f = 12f - 51$ **or** $\frac{f}{3} = \frac{4}{2}f - \frac{17}{2}$ **or** $\frac{f}{3} = 2f - \frac{17}{2}$ **or** $0.3f = 2f - 8.5$ **or** $f = 6f - \frac{51}{2}$ **or** $f = 6f - 25.5$ **or** $17 = 4f - \frac{2}{3}f$ **or** $17 = 4f - 0.6f$ **or** $17 = 4f - 0.7f$ **or** $\frac{2}{3}f - 4f = -17$ **or** $0.6f - 4f = -17$ **or** $0.7f - 4f = -17$		3	M1	for a correct first step – multiplying both sides by 3 correctly and expanding to find $2f = 12f - 51$ or $2f = -51 + 12f$ or writing the RHS as 2 terms each over 2 (Allow decimals to 1dp or better – rounded or truncated)
	eg $-10f = -51$ **or** $10f = 51$ **or** $\frac{5f}{3} = \frac{17}{2}$ **or** $5f = \frac{51}{2}$ or $17 = \frac{10f}{3}$ **or** $3.3f = 17$ **or** $-\frac{10f}{3} = -17$ **or** $-3.3f = -17$			M1	for a correct 2 term equation in the form $af = b$ ft the following equations only $2f = 12f - 17$ oe $2f = 4f - 51$ oe $6f = 12f - 51$ oe (Allow decimals to 1dp or better – rounded or truncated)
	Working required	$\frac{51}{10}$		A1	(dep on at least M1) oe

6	(b)		1	1	B1	
	(c)		$3a^3h^4$	2	B2	for $3a^3h^4$ oe B1 for a product in the form ka^ph^q where 2 from k, p or q are correct (allow multiplication signs) eg $5a^3h^4$ or $\frac{12a^3h^4}{4}$ (Allow $3a^3$ or a^3h^4 or $3h^4$ as long as not added to any other term)
	(d)		$4x^3y(5x^2+3y^3)$	2	B2	for $4x^3y(5x^2+3y^3)$ B1 for any correct factorisation with at least a 2 term factor outside the bracket eg $2x^3y(10x^2 + 6y^3)$ **or** $x^3y(20x^2+12y^3)$ **or** $2x(10x^4y + 6x^2y^4)$ **or** $4y(5x^5+3x^3y^3)$ **or** $4x^3(5x^2y+3y^4)$ etc **or** the correct highest common factor **and** a 2 term expression with at most one incorrect term eg $4x^3y(5x^2 + \ldots)$ or $4x^3y(\ldots + 3y^3)$
						Total 8 marks

7	eg 3^3 or $\left(3^{-2}\right)\times3^{-5}$ or $\frac{3^3}{\left(3^{10}\right)}$ or $\frac{\left(3^5\right)}{3^{12}}$ or $\frac{\left(3^{-2}\right)}{3^5}$ or $3^{-12}\left(\times3^5\right)$oe or – 2 + 5 – 10 oe or – 12 + 5 oe or 3 – 10 oe		2	M1 for a correct application of an index rule as a first step or a correct calculation for n
	Working not required, so correct answer scores full marks (unless from obvious incorrect working)	–7		A1 Allow 3^{-7}
				Total 2 marks