Answers

Essential Skills 5	
1	$c = \sqrt{\dfrac{A - d}{b}}$
2	$r = \sqrt{\dfrac{V}{\pi h}}$
3	$t = \dfrac{H^2}{f}$
4	$p = \dfrac{d^2}{W}$
5	$v = \dfrac{\sqrt{g}}{ip}$
6	$a = \dfrac{2A}{b \sin C}$
7	$h = \sqrt[3]{\dfrac{w + d}{g}}$
8	$h = \dfrac{tP}{5s}$
9	$a = \dfrac{Df - 3b}{3}$
10	$t = \dfrac{T^3 + 3}{6}$
AQ	(a) $384 cm^3$ (b) 4.5cm

Essential Skills 7	
1	$(a + b)(a - b)$
2	$(x + 3)(x - 3)$
3	$(2a + d)(2a - d)$
4	$(3f + 8)(3f - 8)$
5	$(p + 5)(p - 5)$
6	$(2p + 9)(2p - 9)$
7	$(g + 10h)(g - 10h)$
8	$(3c + 7d)(3c - 7d)$
9	$(x + 11)(x - 11)$
10	$2(2a + 3t)(2a - 3t)$
AQ	(a) $3(j + k)(j - k)$ (b) 14.4

Essential Skills 6	
1	4
2	27
3	32
4	100
5	27
6	4
7	32
8	4
9	5
10	625
AQ	(1) $\dfrac{2}{x^{2/3}}$, $\dfrac{1}{2}$ (b) 243

Essential Skills 8	
1	$5x - 19$
2	$21w - 2st + 11$
3	$x^2 + 10x + 24$
4	$x^2 - 15x + 56$
5	$6x^2 + 5x - 4$
6	$5x^2 - 13x + 6$
7	$12x^2 - 5x - 2$
8	$x^2 + 8x + 16$
9	$4x^2 - 4x + 1$
10	$9s^2 - 24st + 16t^2$
AQ	$8y^2 + 10y + 5$