

Answers

Essential Skills 17	
1	(a) 2 (b) -7
2	(a) 15 (b) 3
3	(a) 57 (b) 1
4	(a) 75 (b) 48
5	(a) 47 (b) 11
6	(a) 4 (b) 14
7	(a) 1 (b) -4
8	(a) -1 (b) 64
9	(a) 29 (b) 13
10	(a) -1 (b) 2
AQ	(a) 39 (b) 44 - 5p (c) t = -7 (d) x = 3

Essential Skills 19	
1	$x = 2, y = 3$
2	$x = 1, y = 5$
3	$x = 2, y = 2$
4	$x = 1, y = -1$
5	$x = 3, y = 5$
6	$x = 4, y = -2$
7	$x = -5, y = -2$
8	$x = 0, y = 4$
9	$x = -1, y = 4$
10	$x = 2, y = 7$
AQ	(1) (7, 6) (2) (a) $x + y = 12000$ (b) $28 \cdot 5x + 41y = 472500$ (c) 1560 standing, 10440 seated

Essential Skills 18	
1	$y = 3x - 1$
2	$y = 2x + 7$
3	$y = x + 5$
4	$y = 2x - 2$
5	$y = -x + 3$
6	$y = -2x - 10$
7	$4y = -5x + 20$
8	$2y = -5x - 6$
9	$2y - 3x + 7 = 0$
10	$3y + 4x = 7$
AQ	(a) $C = 0 \cdot 5M + 2$ (b) £14.50

Essential Skills 20	
1	$16 \cdot 8cm, 67 \cdot 0cm^2$
2	$12 \cdot 99cm, 77 \cdot 91cm^2$
3	$11 \cdot 8m, 17 \cdot 7m^2$
4	$12 \cdot 2cm, 42 \cdot 8cm^2$
5	$16 \cdot 9cm, 27 \cdot 0cm^2$
6	$1 \cdot 0m, 0 \cdot 9m^2$
7	$17 \cdot 0cm, 50 \cdot 9cm^2$
8	$68 \cdot 8cm, 640 \cdot 0cm^2$
9	$3 \cdot 3cm, 3 \cdot 7cm^2$
10	$101 \cdot 3mm, 2178 \cdot 3mm^2$
AQ	(1) $47 \cdot 4cm^2$ (2) $33 \cdot 5cm$