Basic Equations

1.   Solve each of the following equations

(a) x + 2 = 7   (b) a + 3 = 5   (c) p + 2 = 11   (d) x + 1 = 0
(e) a - 2 = 3   (f) b - 4 = 1   (g) r - 5 = 8   (h) y - 4 = 3
(i) x + 7 = 4   (j) a + 8 = 6   (k) w + 4 = 1   (l) t + 5 = 3
(m) x - 3 = -2   (n) a - 5 = -3   (o) r - 2 = -6   (p) x - 3 = -1

2.   Solve each equation

(a) 3a = 18   (b) 4x = 20   (c) 5a = 35   (d) 6r = 42
(e) 7p = 49   (f) 8g = 80   (g) 4k = 32   (h) 9y = 36
(i) 6x = -18   (j) 4p = -28   (k) 7h = - 56   (l) 5p = - 60
(m) 2p = 10   (n) 6r = 15   (o) 4t = 30   (p) 8y = 36

3.   Solve by balancing out the equation

(a) 3x + 1 = 13   (b) 5x + 2 = 32   (c) 7x + 5 = 47   (d) 8x + 4 = 44
(e) 4x - 1 = 19   (f) 5x - 6 = 39   (g) 6x - 2 = 52   (h) 8x - 7 = 9
(i) 4a + 1 = -7   (j) 6p + 2 = -4   (k) 5a - 2 = 7   (l) 3s - 4 = -16

4.   Solve the following equations

(a) 5x + 1 = 2x + 7   (b) 8x + 5 = 3x + 20   (c) 7x + 3 = x + 21
(d) 4a + 5 = a + 17   (e) 3s - 2 = s + 12   (f) 5e - 4 = 2e + 23
(g) 6y + 2 = 4y + 22   (h) 5x - 3 = x + 29   (i) 5f + 8 = 2f + 2
(j) 6a + 11 = 5a +8   (k) 4g - 3 = g - 21   (l) 9x - 4 = 2x -25

5.   Solve each equation *(remember: letter terms on one side, numbers on the other)*

(a) 5x = 2x + 18   (b) 7x = 2x + 35   (c) 10x = 3x + 63   (d) 7x = x + 48
(e) 4x = x + 18   (f) 6x = x - 25   (g) 5x = 3x - 8   (h) 8x = 3x - 40
(i) 5x = 14 - 2x   (j) 6x = 27 - 3x   (k) 4x = 5 - x   (l) 2x = 36 - 4x
(m) x = 12 - 3x   (n) 3x = 64 - 5x