Regular Equations Literal Equations

1a) 43 – 2x = 11 1b) Solve for x: 3y + 2x = -1

2a) 23 + 4x – 34 = -11 2b) Solve for k: 3 – 3k + 7k = 5b

3a) 3(2x – 7) = 6 3b) Solve for b: (4a + 10b) = c

4a) 14 = 2x + 26 4b) Solve for v: 3d = 7v + 5

5a) -30 = 4 – 8x 5b) Solve for h: 7a = 10 – 2h

6a) 3(x – 4) = 12 6b) Solve for p: 5(4x + p) = w

**Formulas can be manipulated through the process of solving literal equations.**

7) Solve for h: A = bh (area of a parallelogram)

8) Solve for b: A = bh (Area of a triangle)

9) Solve for b: A = bh (Area of a parallelogram)

10) Solve for h: A = bh (Area of a triangle)

11) Solve for d: C = πd (Circumference of a circle)

12) Solve for L: P = 2L + 2W (Perimeter of a rectangle)

13) Solve for t: D = rt (Linear motion)

**Solve each of the following equations for the variable “y”.**

14) 2y = 4x + 10 15) -5y + 15 = 3x 16) 2x + 4y = -22

 15) Which of the following is equivalent to: **7a – 8b = 10x.**

 a. a =  b. a =  c. a = 

 16) Which of the following is equivalent to: **4ab + k = 13**

 a. k =  b. k =  c. k = 13 – 4ab