



Name: \_\_\_\_\_

Date: \_\_\_\_\_

Fresh  
Math

# Algebra 1 – Unit 2 – Solving Equations with Variables on Both Sides (Handout)

$$1. 8x - 18 = 2x - 6$$

$$6. 4(x + 3) = x + 30$$

$$2. 4(x + 8) = x + 59$$

$$7. 5x = 2x + 15$$

$$3. 5x = 3x + 18$$

$$8. 5x - 50 = 2x - 5$$

$$4. 8x = 6x + 20$$

$$9. 7x = 2x + 45$$

$$5. 2(x + 4) = x + 17$$

$$10. 7x = 5x + 8$$



## - Unit 2 – Solving Equations with Variables on Both Sides (Hard) – Ans

1.  $8x - 18 = 2x - 6$

$x = 2$

6.  $4(x + 3) = x + 30$

$x = 6$

2.  $4(x + 8) = x + 59$

$x = 9$

7.  $5x = 2x + 15$

$x = 5$

3.  $5x = 3x + 18$

$x = 9$

8.  $5x - 50 = 2x - 5$

$x = 15$

4.  $8x = 6x + 20$

$x = 10$

9.  $7x = 2x + 45$

$x = 9$

5.  $2(x + 4) = x + 17$

$x = 9$

10.  $7x = 5x + 8$

$x = 4$