

Name _____

ANSWER KEY

Date _____

ALGEBRA PRACTICE: MULTI-STEP EQUATIONS

**Directions:** Solve each equation.

1.

$$2(g + 4) = 10 + g$$

$$g = 2$$

2.

$$15 - 9p + 12 = 2 - 8p$$

$$p = 25$$

3.

$$39 = 2c - 3(4c - 3)$$

$$c = -3$$

4.

$$-5r + 30 - 3r = 9 - r$$

$$r = 3$$

5.

$$5(4 - 3j) = -5j - 50$$

$$j = 7$$

6.

$$-36 = 4(2a - 5) - 6a$$

$$a = -8$$

7.

$$3(3d - 2) = 4d - 30 + d$$

$$d = -6$$

8.

$$24 - 3f - 5 = -2(5f + 8)$$

$$f = -5$$

9.

$$8 + 3(2x + 5) = 4x - 13$$

$$x = -18$$

10.

$$7(y + 8) - 4y = 9y - 4$$

$$y = 10$$

11.

$$8m - 4 = -3(6 - 3m) + 16$$

$$m = -2$$

12.

$$2 - 15h = -5h + 3(8 - 4h)$$

$$h = 11$$