

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

## Multi-Step Equations

Sheet 1

Solve each equation. Verify your answer.

1)  $\frac{-4(10 - a)}{9} = -4$

2)  $-2(5x - 3) = 2(-3x + 5)$

3)  $-11w + 7 + 10w = 19 + 2w$

4)  $65 = 2(d + 1) + 5d$

5)  $-2(3n + 6) = 3(-n + 12)$

6)  $4 = \frac{12b + 8}{b + 24}$

7)  $-18 + y = 6(2 - 3y + 10) + y$

8)  $7(2s) - 8(s + 6) = 0$

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## Answer Key

Sheet 1

### Multi-Step Equations

Solve each equation. Verify your answer.

1)  $\frac{-4(10 - a)}{9} = -4$

**$a = 1$**

2)  $-2(5x - 3) = 2(-3x + 5)$

**$x = -1$**

3)  $-11w + 7 + 10w = 19 + 2w$

**$w = -4$**

4)  $65 = 2(d + 1) + 5d$

**$d = 9$**

5)  $-2(3n + 6) = 3(-n + 12)$

**$n = -16$**

6)  $4 = \frac{12b + 8}{b + 24}$

**$b = 11$**

7)  $-18 + y = 6(2 - 3y + 10) + y$

**$y = 5$**

8)  $7(2s) - 8(s + 6) = 0$

**$s = 8$**