



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

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

## Solving Multi-Step Equations

Solve each two-step equation. Show your work.

$$1. \ 8x + 38 = 2x + 122$$

$$2. \ 2(3x - 8) - 29 = -15$$

$$3. \ 2(2x + 11) = 50$$

$$4. \ 4(4x - 7) - 19 = 33$$

$$5. \ 2(4x - 8) - 26 = 46$$

$$6. \ 4(3x - 5) - 12 = 40$$

$$7. \ 7x + 49 = 4x + 157$$

$$8. \ 4(3x + 13) = 148$$



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## Solving Multi-Step Equations

Solve each two-step equation. Show your work.

$$9. \ 6x + 43 = 4x + 69$$

$$10. \ 5x + 48 = 3x + 88$$



## Solving Multi-Step Equations – Answer Key

1.  $8x + 38 = 2x + 122$

$x = 14$

2.  $2(3x - 8) - 29 = -15$

$x = 5$

3.  $2(2x + 11) = 50$

$x = 7$

4.  $4(4x - 7) - 19 = 33$

$x = 5$

5.  $2(4x - 8) - 26 = 46$

$x = 11$

6.  $4(3x - 5) - 12 = 40$

$x = 6$

7.  $7x + 49 = 4x + 157$

$x = 36$

8.  $4(3x + 13) = 148$

$x = 8$



## Solving Multi-Step Equations – Answer Key

9.  $6x + 43 = 4x + 69$

$x = 13$

$10.5x + 48 = 3x + 88$

$x = 20$