# 1-3 Study Guide and Intervention (continued) Solving Equations

Properties of Equality To solve equations, we can use properties of equality.

Addition and Subtraction Properties of Equality	For any real numbers $a$ , $b$ , and $c$ , if $a = b$ , then $a + c = b + c$ and $a - c = b - c$ .	
Multiplication and Division Properties of Equality	For any real numbers $a$ , $b$ , and $c$ , if $a = b$ , then $a \cdot c = b \cdot c$ and, if $c \neq 0$ , $\frac{a}{c} = \frac{b}{c}$ .	

#### Example 1: Solve 10 - 8x = 50.

$$10 - 8x = 50$$

Original equation

$$10 - 8x - 10 = 50 - 10$$
 Subtract 10 from both sides.

$$-8x = 40$$
 Simplify.

$$x = -5$$

x = -5 Divide both sides by -8.

#### Example 2: Solve 4x + 5y = 100 for y.

$$4x + 5y = 100$$

Original equation

$$4x + 5y - 4x = 100 - 4x$$
  
 $5y = 100 - 4x$ 

Simplify.

$$y = \frac{1}{5}(100 - 4x)$$

Divide both sides by 5.

Subtract 4x from both sides.

$$y = 20 - \frac{4}{8}x$$

Apply the distributive property.

#### Exercises

Solve each equation. Check your solution.

$$1.3s - 45$$

2. 
$$17 - 9 - a$$

3. 
$$5t - 1 = 6t - 5$$

4. 
$$\frac{2}{3}mr = \frac{1}{2}$$

5. 
$$7 - \frac{1}{2}x = 3$$

6. 
$$-8 = -2(z + 7)$$

$$7.0.25 - 10$$

8. 
$$3x + 17 = 5x - 13$$

9. 
$$5(4-k) = -10k$$

10. 
$$120 - \frac{3}{x}y = 60$$

11. 
$$\frac{5}{2}m = 98 - m$$

$$12.4.5 + 2p - 8.7$$

13. 
$$4n + 20 = 53 - 2n$$

14. 
$$100 = 20 - 5r$$

15. 
$$2x + 75 = 102 - x$$

Solve each equation or formula for the specified variable.

16. 
$$a = 3b - c$$
, for  $b$ 

17. 
$$\frac{r}{2r} = 10$$
, for r

18. 
$$h = 12g - 1$$
, for  $g$ 

19. 
$$\frac{3pq}{r} = 12$$
, for p

20. 
$$2xy = x + 7$$
, for x

21. 
$$\frac{d}{2} + \frac{f}{4} = 6$$
, for  $f'$ 

22. 
$$3(2j-k) = 108$$
, for j

23. 
$$3.5s - 42 = 14t$$
, for s

24. 
$$\frac{m}{n} = 5m = 20$$
, for m

25. 
$$4x - 3y = 10$$
, for x

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**Jiyuan Zhang** 

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