

# Solving One-Step Equations

## Addition & Subtraction

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

Add or subtract the same amount from both sides so that the variable is by itself.

Examples:

$$\begin{array}{l} x + 5 = 14 \\ x + 5 \boxed{- 5} = 14 \boxed{- 5} \\ x = 9 \end{array} \qquad \begin{array}{l} y - 8 = 9 \\ y - 8 \boxed{+ 8} = 9 \boxed{+ 8} \\ y = 17 \end{array}$$



Solve each equation.

(1)  $10 = q + 6$

(2)  $14 = r - 3$

(3)  $q - 14 = 8$

(4)  $9 = g - 9$

(5)  $21 = i + 9$

(6)  $17 = w + 12$

(7)  $s - 3 = 14$

(8)  $11 = j - 7$

(9)  $i + 14 = 27$

(10)  $c + 4 = 13$

(11)  $e - 6 = 7$

(12)  $y + 9 = 16$

(13)  $13 = z + 8$

(14)  $6 = t - 3$

(15)  $15 = g - 11$

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## ANSWER KEY

Add or subtract the same amount from both sides so that the variable is by itself.

Examples:

$$\begin{array}{l} x + 5 = 14 \\ x + 5 \boxed{-5} = 14 \boxed{-5} \\ x = 9 \end{array} \qquad \begin{array}{l} y - 8 = 9 \\ y - 8 \boxed{+8} = 9 \boxed{+8} \\ y = 17 \end{array}$$



Solve each equation.

(1)  $10 = q + 6$   
 $q = 4$

(2)  $14 = r - 3$   
 $r = 17$

(3)  $q - 14 = 8$   
 $q = 22$

(4)  $9 = g - 9$   
 $g = 18$

(5)  $21 = i + 9$   
 $i = 12$

(6)  $17 = w + 12$   
 $w = 5$

(7)  $s - 3 = 14$   
 $s = 17$

(8)  $11 = j - 7$   
 $j = 18$

(9)  $i + 14 = 27$   
 $i = 13$

(10)  $c + 4 = 13$   
 $c = 9$

(11)  $e - 6 = 7$   
 $e = 13$

(12)  $y + 9 = 16$   
 $y = 7$

(13)  $13 = z + 8$   
 $z = 5$

(14)  $6 = t - 3$   
 $t = 9$

(15)  $15 = g - 11$   
 $g = 26$