

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) $t - 9 = 16$ (2) $i + 10 = 41$ (3) $j + 47 = 84$ (4) $c - 35 = 48$

(5) $j - 6 = 46$ (6) $i - 22 = 6$ (7) $a + 23 = 68$ (8) $d + 46 = 80$

(9) $q + 6 = 34$ (10) $t + 27 = 72$ (11) $b - 15 = 16$ (12) $t - 8 = 27$

(13) $s + 22 = 55$ (14) $a - 31 = 50$ (15) $c - 40 = 46$ (16) $q + 47 = 96$

(17) $g + 27 = 68$ (18) $d + 19 = 30$ (19) $n - 46 = 28$ (20) $b + 41 = 56$

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ANSWER KEY

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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) $t - 9 = 16$
 $t = 25$

(2) $i + 10 = 41$
 $i = 31$

(3) $j + 47 = 84$
 $j = 37$

(4) $c - 35 = 48$
 $c = 83$

(5) $j - 6 = 46$
 $j = 52$

(6) $i - 22 = 6$
 $i = 28$

(7) $a + 23 = 68$
 $a = 45$

(8) $d + 46 = 80$
 $d = 34$

(9) $q + 6 = 34$
 $q = 28$

(10) $t + 27 = 72$
 $t = 45$

(11) $b - 15 = 16$
 $b = 31$

(12) $t - 8 = 27$
 $t = 35$

(13) $s + 22 = 55$
 $s = 33$

(14) $a - 31 = 50$
 $a = 81$

(15) $c - 40 = 46$
 $c = 86$

(16) $q + 47 = 96$
 $q = 49$

(17) $g + 27 = 68$
 $g = 41$

(18) $d + 19 = 30$
 $d = 11$

(19) $n - 46 = 28$
 $n = 74$

(20) $b + 41 = 56$
 $b = 15$