

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) $s - 38 = 38$

(2) $13 = g - 44$

(3) $74 = z + 28$

(4) $t + 14 = 54$

(5) $46 = z - 9$

(6) $i - 41 = 36$

(7) $14 = j - 43$

(8) $41 = e - 31$

(9) $x + 16 = 30$

(10) $19 = q - 32$

(11) $39 = b - 42$

(12) $15 = x - 21$

(13) $16 = h - 11$

(14) $r + 42 = 90$

(15) $58 = b + 16$

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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) $s - 38 = 38$

$s = 76$

(2) $13 = g - 44$

$g = 57$

(3) $74 = z + 28$

$z = 46$

(4) $t + 14 = 54$

$t = 40$

(5) $46 = z - 9$

$z = 55$

(6) $i - 41 = 36$

$i = 77$

(7) $14 = j - 43$

$j = 57$

(8) $41 = e - 31$

$e = 72$

(9) $x + 16 = 30$

$x = 14$

(10) $19 = q - 32$

$q = 51$

(11) $39 = b - 42$

$b = 81$

(12) $15 = x - 21$

$x = 36$

(13) $16 = h - 11$

$h = 27$

(14) $r + 42 = 90$

$r = 48$

(15) $58 = b + 16$

$b = 42$