

## T1-13 Homework

Number \_\_\_\_\_ Name \_\_\_\_\_ Period \_\_\_\_\_ Score \_\_\_\_\_

Topic: Solving one-step equations

Solve the following equations. Remember that what you do to one side of the equation must also be done to the other side. (Show your work, even if you can do these in your head.)

Example: Solve for  $x$ .  $1x + 7 = 23$       Add  $-7$  to both sides of the equation.

$$\begin{array}{r} 1x + 7 = 23 \\ -7 = -7 \\ \hline 1x + 0 = 16 \\ \text{Therefore } 1x = 16 \end{array}$$

Example: Solve for  $x$ .  $9x = 63$       Multiply both sides of the equation by  $\frac{1}{9}$ .

$$\begin{array}{r} 9x = 63 \\ \left(\frac{1}{9}\right) 9x = \left(\frac{1}{9}\right) 63 \\ \left(\frac{9}{9}\right) x = \frac{63}{9} \\ 1x = 7 \end{array}$$

Note that multiplying by  $\frac{1}{9}$  gives the same result as dividing everything by 9.

1.  $1x + 16 = 36$

2.  $1x - 13 = 10$

3.  $1x - 8 = -3$

4.  $8x = 56$

5.  $-11x = 88$

6.  $425x = 850$

7.  $\frac{1}{6}x = 10$

8.  $-\frac{4}{7}x = -1$

9.  $\frac{3}{4}x = -9$