

## Two-Step Equations

Solve each equation.

1)  $6 = \frac{a}{4} + 2$

$$4 \cdot \left(4 = \frac{a}{4}\right) \cdot 4$$

$$16 = a$$

3)  $9x - 7 = -7$

$$+7 +7$$

$$\frac{9x}{9} = \frac{0}{9}$$

$$x = 0$$

5)  $-4 = \frac{r}{20} - 5$

$$+5 +5$$

$$20 \left(1 = \frac{r}{20}\right) 20$$

$$20 = r$$

3)  $\frac{v+9}{3} = 8$

$$v+9 = 24$$

$$-9 -9$$

$$v = 15$$

9)  $-9x + 1 = -80$

$$-1 -1$$

$$\frac{-9x}{-9} = \frac{-81}{-9}$$

$$x = 9$$

11)  $-2 = 2 + \frac{v}{4}$

$$-2 -2$$

$$4 \cdot \left(-4 = \frac{v}{4}\right) \cdot 4$$

$$-16 = v$$

2)  $-6 + \frac{x}{4} = -5$

$$+6 +6$$

$$9 \cdot \left(\frac{x}{4} = 1\right) \cdot 4$$

$$x = 4$$

4)  $0 = 4 + \frac{n}{5}$

$$-4 -4$$

$$5 \cdot \left(-4 = \frac{n}{5}\right) \cdot 5$$

$$-20 = n$$

6)  $-1 = \frac{5+x}{6}$

$$-6 = 5+x$$

$$-3 -5$$

$$-11 = x$$

8)  $2(n+5) = -2$

$$n+5 = -1$$

$$-5 -5$$

$$n = -6$$

10)  $-6 = \frac{n}{2} - 10$

$$+10 +10$$

$$2 \cdot \left(4 = \frac{n}{2}\right) \cdot 2$$

$$8 = n$$

12)  $144 = -12(x+5)$

$$-12 -12$$

$$-12 = x+5$$

$$-5 -5$$

$$-17 = x$$