

Review EQUATIONS

Solve the one or two-equation.

1.
$$\begin{array}{r} -41 = a - 22 \\ +22 \quad +22 \end{array}$$
 $a = -19$

3.
$$\left(v - \frac{1}{4} = \frac{3}{4} \right) 4$$

$$4v - 1 = 3$$
 $v = 1$

5.
$$\begin{array}{r} 16 = t + 7 \\ -7 \quad -7 \end{array}$$
 $t = 9$

7.
$$\begin{array}{r} d - 4.2 = -2.7 \\ +4.2 \quad +4.2 \end{array}$$
 $d = 1.5$

9.
$$\left(-\frac{y}{2} = -13 \right) \cdot -2$$
 $y = 26$

11.
$$9 \left(\frac{1}{9} x = 16 \right) 9$$
 $x = 144$

13.
$$\begin{array}{r} -7d = -42 \\ -7 \quad -7 \end{array}$$
 $d = 6$

Solve the multi-step equation

15.
$$\begin{array}{r} 7d + d - 6d + 5 = 2d \\ 2d + 5 = 2d \\ -2d \quad -2d \\ \hline 5 = 0 \end{array}$$
 NO SOLUTION

17.
$$3p - 1 = 5(p - 1) - 2(7 - 2p)$$

$$3p - 1 = 5p - 5 - 14 + 4p$$

$$3p - 1 = 9p - 19$$

$$\begin{array}{r} -3p \\ -1 = 6p - 19 \\ +19 \quad +19 \end{array}$$

$$18 = 6p$$

$$\frac{18}{6} = \frac{6p}{6}$$
 $p = 3$

19.
$$4p - 10 = p + 3p - 2p$$

$$4p - 10 = 2p$$

$$\begin{array}{r} -4p \\ -10 = -2p \\ \hline -10 = -2p \\ \frac{-10}{-2} = \frac{-2p}{-2} \end{array}$$
 $p = 5$

2.
$$\begin{array}{r} 6 = -d + 17 \\ -17 \quad -17 \end{array}$$
 $d = 11$

4.
$$\begin{array}{r} 3.5x + 2.4 = 16.4 \\ -2.4 \quad -2.4 \\ \hline 3.5x = 14 \\ \frac{3.5x}{3.5} = \frac{14}{3.5} \end{array}$$
 $x = 4$

6.
$$\begin{array}{r} y - 7 = -12 \\ +7 \quad +7 \end{array}$$
 $y = -5$

8.
$$\left(-6 = \frac{x}{8} + 4 \right) 8$$

$$-48 = x + 32$$

$$\begin{array}{r} -32 \\ -32 \end{array}$$
 $x = -80$

10.
$$7 \left(\frac{1}{7} x - 8 = 6 \right) 7$$

$$x - 56 = 42$$
 $x = 98$

12.
$$7 \left(\frac{p}{7} - 28 = -32 \right) 7$$

$$p - 196 = -224$$

$$\begin{array}{r} +196 \quad +196 \end{array}$$
 $p = -28$

14.
$$\left(2 = 10 - \frac{x}{3} \right) 3$$
 $x = 24$

$$6 = 30 - x$$

$$\begin{array}{r} -30 \quad -30 \end{array}$$

$$-24 = -x$$

$$\frac{-24}{-1} = \frac{-x}{-1}$$

16.
$$3x - 8 = 5x + 2$$
 $x = -5$

$$\begin{array}{r} -3x \quad -3x \end{array}$$

$$-8 = 2x + 2$$

$$\begin{array}{r} -2 \quad -2 \end{array}$$

$$-10 = 2x$$

$$\frac{-10}{2} = \frac{2x}{2}$$

18.
$$2(4 - 2r) = -2(r + 5)$$
 $r = 9$

$$8 - 4r = -2r - 10$$

$$\begin{array}{r} +4r \quad +4r \end{array}$$

$$8 = 2r - 10$$

$$\begin{array}{r} +10 \quad +10 \end{array}$$

$$\frac{18}{2} = \frac{2r}{2}$$

20.
$$-8(4 + 9x) = 8(-2 - 11x)$$
 $x = 1$

$$-32 - 72x = -16 - 88x$$

$$\begin{array}{r} +88x \quad +88x \end{array}$$

$$-32 + 16x = -16$$

$$\begin{array}{r} +32 \quad +32 \end{array}$$

$$16x = 16$$

$$\frac{16x}{16} = \frac{16}{16}$$

