

# Solving Equations Test Corrections

$$\begin{array}{r} 1.) \quad n + 12 = -4 \\ \quad -12 \quad -12 \\ \hline \boxed{n = -16} \end{array}$$

$$\begin{array}{r} 2.) \quad b + 8 = -2 \\ \quad +8 \quad +8 \\ \hline \boxed{b = -6} \end{array}$$

$$\begin{array}{r} 3.) \quad -9g = -18 \\ \quad -9 \quad -9 \\ \hline \boxed{g = 2} \end{array}$$

$$\begin{array}{r} 4.) \quad \cancel{2} \cdot p = -9 \cdot \cancel{3} \\ \quad 1 \quad \cancel{3} \\ \hline \boxed{p = -27} \end{array}$$

$$\begin{array}{r} 5.) \quad 6m + 5 = 13 \\ \quad +5 \quad +5 \\ \hline \end{array}$$

$$\begin{array}{r} \cancel{6}m = \cancel{18} \\ \quad \cancel{6} \quad \quad \cancel{6} \end{array}$$

$$\boxed{m = 3}$$

$$\begin{array}{r} 6.) \quad 25 = 3n + 4 \\ \quad -4 \quad -4 \\ \hline \end{array}$$

$$\begin{array}{r} 21 = 3n \\ \quad 3 \quad 3 \\ \hline \end{array}$$

$$\boxed{7 = n}$$

$$\begin{array}{r} 7.) \quad 2x + 1 = 9 \\ \quad -1 \quad -1 \\ \hline \end{array}$$

$$\begin{array}{r} 2x = -10 \\ \quad 2 \quad 2 \\ \hline \end{array}$$

$$\boxed{x = -5}$$

$$\begin{array}{r} 8.) \quad -5y + 18 = 22 \\ \quad +18 \quad +18 \\ \hline -5y = 40 \\ \quad -5 \quad -5 \\ \hline \end{array}$$

$$\boxed{y = -8}$$

$$9.) \frac{m}{4} + -15 = -5$$
$$\begin{array}{r} +15 \quad +15 \\ \hline \end{array}$$

$$4 \cdot \frac{m}{4} = 10 \cdot 4$$

$$m = 40$$

$$10.) 13 = \frac{c}{-6} + 9$$
$$\begin{array}{r} -9 \quad -9 \\ \hline \end{array}$$

$$-6 \cdot 4 = \frac{c}{-6} \cdot -6$$

$$-24 = c$$

$$11.) 3x + 2.7 = 9.6$$
$$\begin{array}{r} +2.7 \quad +2.7 \\ \hline \end{array}$$

$$\frac{3x}{3} = \frac{-6.9}{3}$$

$$x = -2.3$$

$$12.) \frac{y}{2.5} + 6.4 = 11.2$$
$$\begin{array}{r} -6.4 \quad -6.40 \\ \hline \end{array}$$
$$\frac{2.5}{1} \cdot \frac{y}{2.5} = 7.72 \cdot (2.5)$$

$$y = 19.3$$

$$\begin{array}{r} \frac{3}{7.72} \\ \times 2.5 \\ \hline 3860 \\ +15440 \\ \hline 19300 \end{array}$$