

$$(26) \frac{y-4}{2} = 10$$

① Use Distributive Property

$$\frac{y}{2} - \frac{4}{2} = 10$$

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

$$2 \cdot \frac{y}{2} = 12 \cdot 2$$

$$\boxed{y = 24}$$

② Multiply by reciprocal

$$\frac{y-4}{2} = 10$$

$$2 \cdot \frac{y-4}{2} = 10 \cdot 2$$

$$\begin{array}{r} y-4 = 20 \\ +4 \quad +4 \\ \hline \boxed{y = 24} \end{array}$$

$$(27) 7 = \frac{x-8}{3}$$

① Distributive Property

$$7 = \frac{x}{3} - \frac{8}{3}$$

$$7 = \frac{x}{3} - \frac{8}{3}$$

$$+ \frac{8}{3}$$

$$+ \frac{8}{3}$$

$$3 \cdot \frac{29}{3} = \frac{x}{3} \cdot 3$$

$$\boxed{x = 29}$$

$$\frac{21}{3} + \frac{8}{3} = \frac{29}{3} = \frac{x}{3}$$

② Multiply by reciprocal

$$7 = \frac{x-8}{3}$$

$$3 \cdot 7 = \frac{x-8}{3} \cdot 3$$

$$21 = x-8$$

$$+8 \quad +8$$

$$\boxed{x = 29}$$

$$\textcircled{28} \quad \frac{z + 10}{9} = 2$$

$$9 \cdot \frac{z + 10}{9} = 2 \cdot 9$$

$$\begin{array}{r} z + 10 = 18 \\ -10 \quad -10 \\ \hline \end{array}$$

$$\boxed{z = 8}$$

$$\textcircled{29} \quad 4 = \frac{a + 10}{2}$$

① Distributive

② Reciprocal

$$4 = \frac{a}{2} + \frac{10}{2}$$

$$2 \cdot 4 = \frac{a + 10}{2} \cdot 2$$

$$\begin{array}{r} 4 = \frac{a}{2} + 5 \\ -5 \quad -5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 = a + 10 \\ -10 \quad -10 \\ \hline \end{array}$$

$$2 \cdot -1 = \frac{a}{2} \cdot 2$$

$$\boxed{a = -2}$$

$$\boxed{a = -2}$$

$$\textcircled{30} \quad 7 \frac{1}{2} = \frac{x + 3}{2}$$

$$\frac{15}{2} = \frac{x + 3}{2}$$

$$2 \cdot \frac{15}{2} = \frac{x + 3}{2} \cdot 2$$

$$\begin{array}{r} 15 = x + 3 \\ -3 \quad -3 \\ \hline \end{array}$$

$$\boxed{12 = x}$$

$$\textcircled{31} \quad \frac{b + 3}{5} = -1$$

$$5 \cdot \frac{b + 3}{5} = -1 \cdot 5$$

$$\begin{array}{r} b + 3 = -5 \\ -3 \quad -3 \\ \hline \end{array}$$

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

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$$-2 = \frac{d-7}{7}$$

Reciprocal

$$7 \cdot -2 = \frac{d-7}{7}$$

$$\begin{array}{r} -14 = d-7 \\ +7 \quad +7 \end{array}$$

$$\boxed{-7 = d}$$

Dist

$$-2 = \frac{d}{7} - \frac{7}{7}$$

$$-2 = \frac{d}{7} - 1$$

$$\begin{array}{r} -2 = \frac{d}{7} - 1 \\ +1 \quad +1 \end{array}$$

$$-1 = \frac{d}{7}$$

$$7 \cdot -1 = \frac{d}{7}$$

$$\boxed{-7 = d}$$

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$$\frac{g-3}{3} = \frac{5}{3}$$

Reciprocal

$$3 \cdot \frac{g-3}{3} = \frac{5}{3} \cdot 3$$

$$\begin{array}{r} g-3 = 5 \\ +3 \quad +3 \end{array}$$

$$\boxed{g = 8}$$

Dist

$$\frac{g-3}{3} = \frac{5}{3}$$

$$\frac{g}{3} - \frac{3}{3} = \frac{5}{3}$$

$$\begin{array}{r} \frac{g}{3} - \frac{3}{3} = \frac{5}{3} \\ +\frac{3}{3} \quad +\frac{3}{3} \end{array}$$

$$3 \cdot \frac{g}{3} = \frac{8}{3} \cdot 3 \quad \boxed{g = 8}$$