

$$\textcircled{1} \quad 5r + 2 = 17$$
$$\quad \quad \quad \cancel{-2} \quad \quad \quad \cancel{-2}$$

$$\cancel{5r} = \cancel{15}$$

$$r = 3$$

$$\textcircled{2} \quad 25 = -2w - 3$$
$$\quad \quad \quad +3 \quad \quad \quad \cancel{+3}$$

$$\cancel{28} = \cancel{-2w}$$

$$-14 = w$$
$$w = -14$$

$$\textcircled{3} \quad -7 = 4y + 9$$
$$\quad \quad \quad \cancel{-9} \quad \quad \quad \cancel{-9}$$

$$\cancel{-16} = \cancel{4y}$$

$$-4 = y$$
$$y = -4$$

$$\textcircled{4} \quad -3f + 19 = 4$$
$$\quad \quad \quad \cancel{-19} \quad \quad \quad \cancel{-19}$$

$$\cancel{-3f} = \cancel{-15}$$

$$f = 5$$

$$\textcircled{5} \quad -22 = -p - 12$$
$$\quad \quad \quad +12 \quad \quad \quad \cancel{+12}$$

$$\cancel{-10} = \cancel{-p}$$

$$10 = p$$
$$p = 10$$

$$\textcircled{6} \quad 6.5 = 2.5r - 11$$
$$\quad \quad \quad +11 \quad \quad \quad \cancel{+11}$$

$$\cancel{17.5} = \cancel{2.5r}$$

$$r = 7$$

$$\textcircled{7} \quad \frac{y}{3} - 8 = 1$$
$$\quad \quad \quad \cancel{+8} \quad \quad \quad \cancel{+8}$$

$$\cancel{3 \cdot \frac{y}{3}} = \cancel{9} + 3$$

$$y = 27$$

$$\textcircled{8} \quad 4 \cdot \frac{2h}{3} - \frac{1 \cdot 3}{4 \cdot 3} = \frac{1}{3} \cdot \frac{4}{4}$$

$$\cancel{\frac{8h}{12} - \frac{3}{12} = \frac{4}{12}}$$

$$\cancel{8h} - \cancel{3} = \cancel{4}$$
$$\quad \quad \quad +3 \quad \quad \quad +3$$

$$\cancel{8h} = \frac{7}{8}$$

$$h = 7/8$$

$$\textcircled{9} \quad -\frac{2 \cdot 3}{5 \cdot 3} = -\frac{1 \cdot 5m}{3 \cdot 5} + \frac{3 \cdot 3}{5 \cdot 3}$$

$$\cancel{-\frac{6}{15} = -\frac{5m}{15} + \frac{9}{15}}$$

$$\cancel{-6} = \cancel{-5m} + \cancel{9}$$
$$\quad \quad \quad -9 \quad \quad \quad -9$$

$$\cancel{-15} = \cancel{-5m}$$

$$3 = m$$
$$m = 3$$

$$\textcircled{10} \quad -5v = 6v + 5 - v$$

$$\cancel{-5v} = \cancel{5v} + 5$$

$$\cancel{-10v} = \cancel{5}$$

$$v = -\frac{5}{10}$$

$$v = -1/2$$

$$\textcircled{11} \quad -3(b+9) = -6$$

$$\cancel{-3b} - \cancel{27} = \cancel{-6}$$
$$\quad \quad \quad +27 \quad \quad \quad +27$$

$$\cancel{-3b} = \cancel{21}$$

$$b = -7$$

$$\textcircled{12} \quad 6\frac{1}{2} = -4(n-1)$$

$$\cancel{6\frac{1}{2}} = \cancel{-4n} + \cancel{4}$$

$$\cancel{2\frac{1}{2}} = \cancel{-4n}$$

$$-5/8 = n$$

$$n = -5/8$$

(13) If  $9x - 13 = -31$ , find value of  $x - 8$

$$\begin{array}{r} 9x - 13 = -31 \\ +13 \quad +13 \end{array}$$

$$\begin{array}{r} 9x = -18 \\ \underline{9} \quad \underline{9} \end{array}$$

$$x = -2$$

→ now find  $x - 8$

$$= (-2) - 8$$

$$= \boxed{-10}$$

(14) If  $4(y + \frac{3}{2}) = -18$ , find value of  $2y$

$$4(y + \frac{3}{2}) = -18$$

$$\begin{array}{r} 4y + 6 = -18 \\ -6 \quad -6 \end{array}$$

$$\begin{array}{r} 4y = -24 \\ \underline{4} \quad \underline{4} \end{array}$$

$$y = -6$$

→ now find  $2y$

$$= 2(-6)$$

$$= \boxed{-12}$$