

Pg. 127 14, 16, 22, 24, ~~26~~
 32, 34, 42, 44, 46, 48, 50, 51, 54

(14) $\frac{3}{16} = \frac{x}{12}$

$3 \cdot 12 = \frac{x}{16} \cdot 12$

$\frac{9}{4} = x$

$2\frac{1}{4} = x$

~~$\frac{2}{k-2} = \frac{5}{8}$
 $2 \cdot 8 = 5(k-2)$
 $16 = 5k - 10$
 $56 = 5(k-2)$
 $56 = 5k - 10$
 $56 + 10 = 5k - 10 + 10$
 $66 = 5k$
 $\frac{66}{5} = k$
 $13\frac{1}{5} = k$~~

(16) $\frac{x}{120} = \frac{1}{24}$

$120 \cdot \frac{x}{120} = \frac{1}{24} \cdot 120 \cdot 5$
 $x = 5$

(32) $\frac{9+2}{5} = \frac{29-11}{7}$

~~$\frac{9+2}{5} = \frac{29-11}{7}$~~

$7(9+2) = 5(29-11)$

$79 + 14 = 109 - 55$

$79 + 14 + 55 = 109 - 55 + 55$

$79 + 69 = 109$

$79 - 79 + 69 = 109 - 79$

$\frac{69}{3} = \frac{30}{3}$

$23 = 9$

(22) $\frac{-9}{b} = \frac{5}{6}$

$-9 \cdot 6 = 5 \cdot b$

$\frac{-54}{5} = \frac{5b}{5}$

-10.8

(24) $\frac{-3}{4} = \frac{m}{22}$

~~$\frac{3}{4} = \frac{m}{22}$~~

$\frac{-66}{4} = \frac{4m}{4}$

$-16.5 = m$

$$\begin{aligned} \textcircled{34} \quad 1 \text{ hr} &= x \text{ hrs} \\ 14 \text{ flowers} & \quad 35 \text{ flowers} \\ \frac{35}{14} &= \frac{14x}{14} \\ 2.5 &= x \\ 2.5 \text{ hours} \end{aligned}$$

$$\begin{aligned} \textcircled{43} \quad \frac{p}{4} &= \frac{7}{8} \quad \text{Cross Products} \\ 8p &= 28 \\ p &= 3.5 \end{aligned}$$

$$\begin{aligned} \textcircled{44} \quad 3 &= \frac{b}{7} \\ 21 &= 10b \\ 21 &= b \end{aligned}$$

Cross prod.

$$\begin{aligned} \textcircled{46} \quad \frac{9}{14} &= \frac{3}{n} \quad \text{Cross prod} \\ 9n &= 42 \\ n &= 4\frac{2}{3} \end{aligned}$$

$$\begin{aligned} \textcircled{48} \quad \frac{b+13}{2} &= \frac{-5b}{3} \\ 3(b+13) &= 2(-5b) \\ 3b+39 &= -10b \\ 13b+39 &= 0 \\ 13b+39-39 &= -39 \\ 13b &= -39 \\ b &= -3 \end{aligned}$$

$$\begin{aligned} \textcircled{50} \quad \frac{x+2}{2x-6} &= \frac{3}{8} \\ 8(x+2) &= 3(2x-6) \\ 8x+16 &= 6x-18 \\ 8x-6x+16 &= 6x-6x-18 \\ 2x+16 &= -18 \\ 2x+16-16 &= -18-16 \\ 2x &= -34 \\ x &= -17 \end{aligned}$$

$$\begin{aligned} \textcircled{51} \quad \frac{8}{13} &= \frac{x+3}{3x+3} \\ 16 &= 3x+9 \\ 7 &= 3x \\ x &= \frac{7}{3} \end{aligned}$$

3 not fully distributed

54.

$$\frac{32 \text{ rings}}{12 \text{ inch}} = \frac{x \text{ rings}}{20 \text{ inches}}$$
$$\frac{640}{12} = \frac{12x}{12}$$

28. 296
miles

gal
300

296, 1000
miles, wire

pg. 121 # 11-15

⑪ 63 yd; ft

$$63 \text{ yd} \cdot \frac{3 \text{ ft}}{1 \text{ yd}} = \boxed{189 \text{ ft}}$$

⑫ 168 h; days

$$168 \text{ h} \cdot \frac{1 \text{ day}}{24 \text{ hours}} = \frac{168}{24} \text{ days} = \boxed{7 \text{ days}}$$

⑬ ~~2.5~~ 2.5 lb; ounces

$$2.5 \text{ lb} \cdot \frac{16 \text{ oz}}{1 \text{ lb}} = 2.5 \cdot 16 = \boxed{40 \text{ oz.}}$$

⑭ 200 cm; meters

$$200 \text{ cm} \cdot \frac{1 \text{ m}}{100 \text{ cm}} = \frac{200}{100} = \boxed{2 \text{ meters}}$$

⑮ 4 min; seconds

$$4 \text{ min} \cdot \frac{60 \text{ sec}}{1 \text{ min}} = 4 \cdot 60 = \boxed{240 \text{ seconds}}$$