

2.4

(1) formula

(2) multiply ; 4

(3) subtract (from)

(4) T

(5) F

(6) F

(15) $C = \frac{5}{9}(F - 32)$
 $C = \frac{5}{9}(68 - 32)$
 $= \frac{5}{9}(36)$
 $C = 20^\circ$

(21) $\boxed{12.5} \quad 5.6m$

(a) $P = 2l + 2w$
 $= 2(12.5) + 2(5.6)$
 $= 25 + 11.2$
 $= 36.2m$

(b) $A = lw$
 $= (12.5)(5.6)$
 $= 70m^2$

					³
					12.5
					5.6

					750
					6250

					70.00

(22) $\boxed{3/4 \text{ mi}} \quad 1/2 \text{ mi}$

(a) $2l + 2w = P$
 $2(3/4) + 2(1/2) = P$
 $3/2 + 1 = P$

(2 1/2) $5/2 \text{ mi} = P$

(b) $A = lw$
 $= (3/4)(1/2)$
 $= 3/8 \text{ mi}^2$

(30) $A = lw$
 $w = A/l$

(34) $V = LWH$
 $W = \frac{V}{LH}$

(39) $A = P + Prt$
 $A - P = Prt$
 $\frac{A - P}{Pr} = t$

(43) $3x + y = 12$
 $y = 12 - 3x$

(45) ~~$10x - 5y = 25$
 $-5y = 25 - 10x$
 $y = -5 + 2x$~~

(47) ~~$4x + 3y = 13$
 $3y = 13 - 4x$
 $y = \frac{13}{3} - \frac{4}{3}x$~~

(46) $12x - 6y = 18$
 $-6y = 18 - 12x$
 $y = -3 + 2x$

(48) $5x + 6y = 18$
 $6y = 18 - 5x$
 $y = 3 - \frac{5}{6}x$

(49) $\frac{1}{2}x - \frac{1}{6}y = 2$
 $-\frac{1}{6}y = 2 - \frac{1}{2}x$
 $y = -12 + 3x$

$$\begin{aligned} (46) \quad 12x - 6y &= 18 \\ -6y &= 18 - 12x \\ \boxed{y} &= \boxed{-3 + 2x} \\ & \quad (2x - 3) \end{aligned}$$

$$\begin{aligned} (48) \quad 5x + 6y &= 18 \\ 6y &= 18 - 5x \quad (1) \\ \boxed{y} &= \boxed{3 - \frac{5}{6}x} \\ & \quad (-\frac{5}{6}x + 3) \end{aligned}$$

$$\begin{aligned} (50) \quad \frac{2}{3}x - \frac{5}{2}y &= 5 \\ -\frac{5}{2}y &= 5 - \frac{2}{3}x \\ &= \frac{5}{1} \left(\frac{-2}{5}\right) - \left(\frac{-2}{5}\right) \left(\frac{2}{3}\right)x \\ \boxed{y} &= \boxed{-2 + \frac{4}{15}x} \end{aligned}$$

$$(52) \quad \text{Profit} = \text{Revenue} - \text{Cost}$$

$$P = R - C$$

$$(a) \quad \text{Solve for } R \\ \boxed{R = P + C} \quad (1)$$

$$\begin{aligned} (b) \quad P &= 4525 \quad C = 1475 \\ R &= 4525 + 1475 \\ \boxed{R} &= \boxed{\$6000} \quad (1) \end{aligned}$$

$$(54) \quad I = Prt$$

$$(a) \quad \text{Solve for } r \\ \boxed{r = I / Pt}$$

$$(b) \quad I = 225 \quad P = 5000 \quad t = 1.5 \text{ yr}$$

$$r = \frac{225}{(5000)(1.5)} = \frac{225}{7500} = \boxed{0.03} \quad (3\%)$$