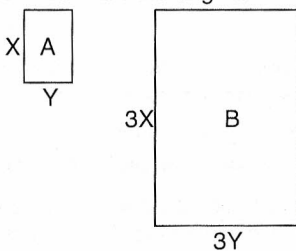## Lesson 1

1) $135 \div 9 = 15$;

   $15 \times 2 = 30$ people approved

   $135 \div 5 = 27$ people disapproved

   $30 + 27 = 57$ people answered

   $135 - 57 = 78$ people didn't answer

   more people didn't answer

2) $49,170 \div 1,250 = 39$ r. 420

   39 times with 420 sq. mi. left over

3) $2 \times \$35.99 = \$71.98$

   $\$71.98 + \$15.95 = \$87.93$

   $\$87.93 - \$5.00 = \$82.93$

   $\$100.00 - \$82.93 = \$17.07$ change

4) $\$17.07 - \$10.00 = \$7.07$;

   $\$7.07 - \$5.00 = \$2.07$;

   $\$2.07 - \$2.00 = \$.07$;

   $\$.07 - \$.05 = \$.02$;

   a ten, a five, two ones, a nickel,

   and two pennies

5) $24 \times 12 = 288$ per case;

   $900 \div 288 = 3.125$

   rounded to next whole number is 4

6) $1,260 \div 60 = 21$ hours

7) $15 + (-33) = -18$;

   $-18 + 5 = -13°$

Lesson 2

1) Beginning price was $60, and he purchased 30 shares, so he spent 30 x $60, or $1,800. Ending price was $45, and he sold 30 shares, so he received 30 x $45 or $1,350.

   $\$1,800 - \$1,350 = \$450$ lost

2) $\dfrac{3}{8} + \dfrac{1}{8} + \dfrac{3}{8} = \dfrac{7}{8}$ of a mile traveled

   $\dfrac{8}{8} - \dfrac{7}{8} = \dfrac{1}{8}$ of a mile left

3) ran $\dfrac{3}{8} + \dfrac{3}{8} = \dfrac{6}{8} = \dfrac{3}{4}$ mile

   $5,280 \div 4 = 1,320$; $1,320 \times 3 = 3,960$ ft. running

   jogged $\dfrac{1}{8}$ mile

   $5,280 \div 8 = 660$ ft. jogging

   Distance walking is the same as distance jogging, so that is 660 ft. also.

4) $21 \times 60 = 1,260$ per hour

   $1,260 \times 24 = 30,240$ per day

   $30,240 \times 365 = 11,037,600$ per year

5) $-5 + 4 - 8 + 10 + 5 - 4 - 6 = -4$ gallons

6) $-4 \times 4 = -16$ qts

Lesson 3

1) $68 \div 4 = 17$ units on a side

   $17 \times 17 = 289$ sq. units

2) $8 \times 6 = 48$ sq. units

   $16 \times 12 = 192$ sq. units

   $192 \div 48 = 4$ times the original

3) $4 \times 3 = 12$ sq. units

   $12 \div 48 = 1/4$ the original

4)

   area of rectangle A = XY sq units

   area of rectangle B = 9XY sq units

   $9XY \div XY = 9$

   the area of B is 9 times that of A

5) 39

6) 13   This can easily be solved by drawing a diagram or a number line.

7) rectangle: $14 \times 16 = 224$ sq. in.

   triangle: $1/2 \times 14 \times 15 = 105$ sq. in.

   total: $224 + 105 = 329$ sq. in.

8) $3.14\left(15^2\right) = 706.5$ sq. in.

   $3.14\left(12^2\right) = 452.16$ sq. in.

   $706.5 - 452.16 = 254.34$ sq. in.