1. Suppose you traveled 85 miles in $1\frac{1}{2}$ hours. Moving at the same speed, how many miles would you cover in $3\frac{1}{4}$ hours?

$$\frac{M_{1US}}{Hoves}$$
: $\frac{85}{1.5} = \frac{X}{3.25}$ } $1.5X = 276.25$ $X = 184.17$ MILES

2. A house is 15 feet tall and its shadow is 40 feet long. At the same time, the shadow of a nearby building is 300 feet long. Find the height of the building.

House/Building:
$$\frac{15}{40} = \frac{x}{300}$$
 $\frac{15}{40} = \frac{x}{300}$ $\frac{15}{12.5} = \frac{x}{12.5}$

3. If 3 apples cost \$1.19, find the cost of 15 apples at the same rate.

$$\frac{\cos x}{\sin x} : \frac{1.19}{3} = \frac{x}{15}$$
 $3x = 17.85$
 $x = 5.95

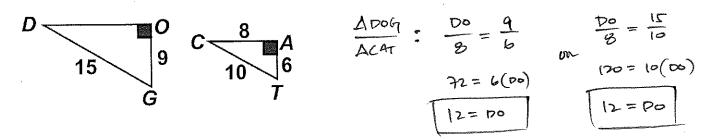
4. Harry scores an average of 7 foul shots out of every 10 attempts. At the same rate, how many shots would be scored in 200 attempts?

SHOTS
$$\frac{2}{10} = \frac{x}{200}$$
 $\frac{10x = 1400}{x = 140 \text{ shorts}}$

5. A recipe calls for $1\frac{1}{2}$ cups of sugar for a 3 pound cake. How many cups of sugar should be used for a 5 pound cake?

CUB OF SUGAR.
$$\frac{1.5}{3} = \frac{x}{5}$$
 $\frac{3x = 7.5}{x = 2.5}$ CUTS of SUGAR.

6. $\Delta DOG \sim \Delta CAT$. Find the length of DO.



MODEL:
$$\frac{1}{64H} = \frac{.8(12)}{.00} = \frac{1}{12} = \frac{.8(12)}{.00} = \frac{.8(12)}{.00}$$

$$\frac{1800/8400}{644000}$$
: $\frac{x}{41} = \frac{58}{95}$ $\frac{37x = 2378}{x = 25.03 m}$

9. At a certain college, the ratio of men to woman is 5 to 4. If there are 2800 men, how many woman are there?

Find the length of x.

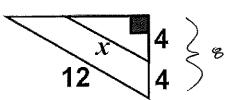
10.
$$\begin{array}{c|c} & 5 \\ \hline & x \\ \hline & 1.5 \end{array}$$

$$\frac{B14 \square}{SMML \square} : \frac{5}{\times} = \frac{2.5}{1.5}$$

$$2.5X = 7.5$$

$$X = 3$$

11.



$$\frac{344 \Delta}{\text{SMALA}} \cdot \frac{12}{X} = \frac{8}{4}$$

