□	Baseball	Football	Basketball	Hockey	Total
Men	43	57	60	12	172
Women	29	41	28	30	128
Total	72	98	88	42	300

Using the results of a survey predict how many of the next 800 people asked would choose basketball as their favorite?

$$\frac{88}{300} = \frac{x}{800}$$

$$\boxed{x = 234}$$

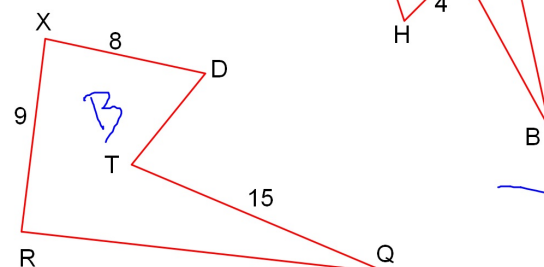$$70400 = 300x$$

$$\frac{70400}{300} = \frac{300x}{300}$$

$$\frac{88}{300} \rightarrow 29\%$$

$$29\% \text{ of } 800 = ?$$

Find the length of

$\overline{WP}$ and $\overline{QR}$

$$\frac{WP}{9} = \frac{5}{8}$$

$$\boxed{WP = 5.63}$$

$$\frac{13}{QR} = \frac{5}{8}$$

$$\boxed{QR = 20.8}$$

---

1. 72 is 45% of what?

$$\boxed{160}$$

$$\frac{45}{100} = \frac{72}{x} \quad \begin{matrix} is \\ of \end{matrix}$$

$$(.45)(x) = 72$$

2. 90 is what percent of 48?

$$\frac{x}{100} = \frac{90}{48}$$

$$\boxed{x = 187.5\%}$$

$$(x)48 = 90$$

Convert $245 \dfrac{ounce}{pint}$ into $\dfrac{ton}{gallon}$

16 ounces = 1 pound   2 pints = 1 quart

2000 pounds = 1 ton   4 quarts = 1 gallon

$$\frac{245\,oz}{pt} \cdot \frac{2\,pt}{1\,qt} \cdot \frac{4\,qt}{1\,gal} \cdot \frac{1\,lb}{16\,oz} \cdot \frac{1\,ton}{2000\,lb}$$

$$\boxed{0.06125 \frac{ton}{gal}}$$

The scale on a drawing of a building is 3:50. If the building in the drawing is 19 inches tall how tall is the actual building?

$$\frac{3 \text{ draw}}{50 \text{ actual}} = \frac{19 \text{ in}}{X \text{ in}}$$

$$316.67 \text{ in} \cdot \frac{1 \text{ ft}}{12 \text{ in}}$$

$$26.39 \text{ ft}$$