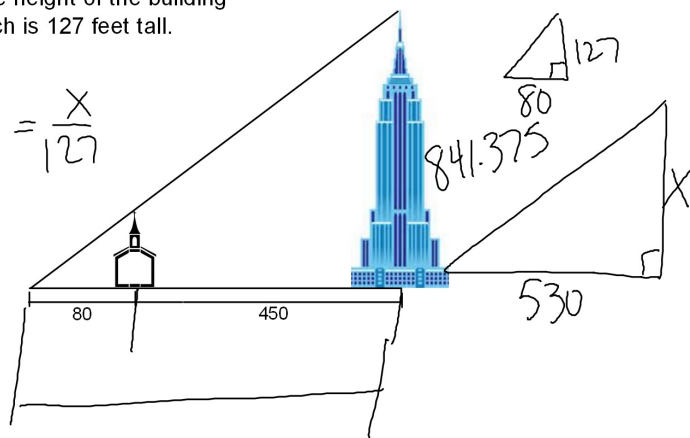1. Find the height of the building if the church is 127 feet tall.

$$\frac{530}{80} = \frac{X}{127}$$

$$\frac{B}{L}$$

127

80

841.375

X

530

80   450

2. Solve this proportion.

$$\frac{2w^3 + 8}{w^1} \times \frac{6w^2 + 20}{3}$$

$$6w^3 + 24 = 6w^3 + 20w$$

$$\frac{24}{20} = \frac{20w}{20}$$

$$\boxed{1.2 = w}$$

3. A store sells only running shoes and basketball shoes. On one shelf of the store the ratio of running shoes to basketball shoes is ③:7. If there are a total of 750 shoes in the store, how many are running shoes?

$$\frac{3R}{7B} = \frac{X_R}{750 \, TOT}$$

$$10 \, TOT$$

$$R = 225$$

4. The scale on a map is 1.5in = 50 miles. If two cities are 8 inches apart on the map how far apart are they in real life?

$$\frac{1.5 in}{50 mi} = \frac{8 in}{X \, mi}$$

$$\boxed{266.67 \, mi}$$