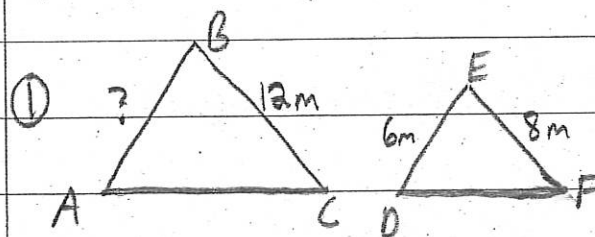


Proportions and Similar Figures



$$\triangle ABC \sim \triangle DEF$$

$$\frac{AB}{DE} = \frac{BC}{EF}$$

$$\frac{AB}{6} = \frac{12}{8}$$

$$\frac{8(AB)}{8} = \frac{72}{8}$$

$$AB = 9m$$

- ② The distance from Jacksonville to Gainesville on a map is about 0.6 in. What is the actual distance?

Scale

1 in : 110 mi

$$\text{Map scale} = \frac{\text{map distance}}{\text{actual distance}}$$

$$\frac{1 \text{ in}}{110 \text{ mi}} = \frac{0.6 \text{ in}}{X}$$

$$X = 66 \text{ miles}$$