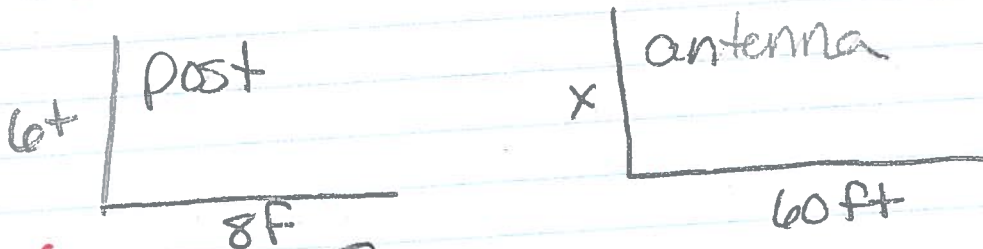


Try It

- ① If a 6 foot post casts a shadow that is 8 feet long, how tall is an antenna that casts a shadow 60 feet?



$$\frac{\text{post}}{\text{ant}} = \frac{6}{x} = \frac{8}{60}$$

$$\frac{8x}{8} = \frac{360}{8}$$

$$x = 45\text{ft}$$

or $\frac{\text{height}}{\text{shadow}} = \frac{6}{8} = \frac{x}{60}$

$$\frac{8x}{8} = \frac{360}{8}$$

$$x = 45\text{ft}$$

- ② A six foot tent casts a shadow 9 feet. The box's shadow is 6ft. How tall is the box?



$$\frac{6}{x} = \frac{9}{6}$$

$$9x = 36$$

$$9 = 4\text{ft}$$

how else can it be written?

$$\frac{6}{9} = \frac{x}{6}$$

$$\frac{9}{6} = \frac{6}{x}$$

$$\frac{x}{6} = \frac{6}{9}$$