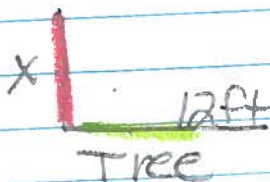
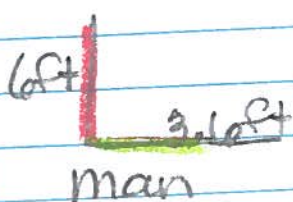


Friday Word Problems + Review

- ① A six footman standing near a tree has a shadow 3.6 feet long. A tree has a shadow 12 feet long. How tall is the tree?



$$\frac{\text{height}}{\text{shadow}} \quad \frac{6}{3.6} = \frac{x}{12}$$

or man tree

$$\frac{6}{x} = \frac{3.6}{12}$$

$$\frac{3.6 \times 72}{3.6 \times 3.6}$$

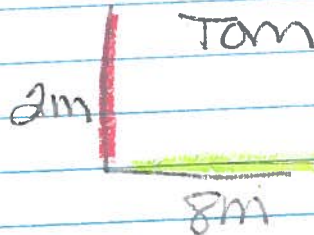
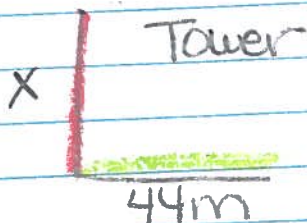
$$x = 20 \text{ft.}$$

Units

$$\frac{3.6x = 72}{3.6 \quad 3.6}$$

$$x = 20 \text{ft}$$

- ② A tower casts a shadow 44 meters long. Tom is 2 meters tall and casts a shadow 8 meters long. How long is the tower?



$$\frac{\text{tower}}{\text{Tom}} \quad \frac{x}{2} = \frac{44}{8}$$

$$\frac{8x = 88}{8 \quad 8}$$

$$x = 11 \text{m}$$

$$\frac{\text{height}}{\text{shadow}} \quad \frac{x}{44} = \frac{2}{8}$$

$$\frac{8x = 88}{8 \quad 8}$$

$$x = 11 \text{m}$$