

Step 1:

Ratio  
and  
Proportion  
Problem

Step 2: Key Facts and/or Ideas

Fence: 4 ft      Tree (along fence): ? ft  
Shadow: 12 ft    Tree shadow: 72 ft

higher level of thinking ex:

- Heights / shadow being cast
- measurements in feet
- relationship between the two different objects (proportions)

Step 3: Solve

Fence ratio  $\frac{4}{12}$   
Shadow  $\rightarrow$

Tree height  $\rightarrow$  ? ft  
Tree shadow  $\rightarrow$  72 ft

- set up a proportion

$$\frac{4 \text{ ft}}{12 \text{ ft}} = \frac{? \text{ ft}}{72 \text{ ft}}$$

$$\frac{4}{12} \times \frac{6}{6} = \frac{24 \text{ ft}}{72 \text{ ft}}$$

Tree height = 24 ft

Step 4:

- can students create their own problem?

- This step will be done in math

Class today