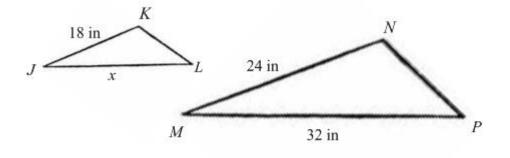
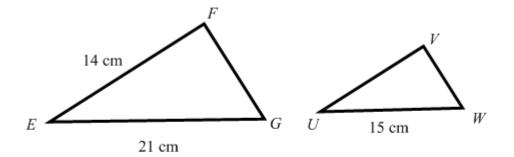
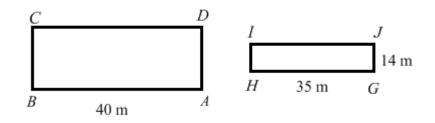
**Congruent figures:** two figures that are both the same \_\_\_\_\_\_ and the same Similar Figures: two figures that are the same \_\_\_\_\_ but do not have to be the same \_\_\_\_\_. (They could be though) **Corresponding parts:** two \_\_\_\_\_\_ of two similar figures that have the same relative position. They are in the "same spot" \*\*SIDES OF SIMILAR FIGURES ARE \_\_\_\_\_\_\*\* \*this means they form a \_\_\_\_\_ Decide if the given pairs of figures are similar or not. Ex: 8 in 10 in 2 in 7 in Ex: 6 in 12 in 2.5 in 5 in



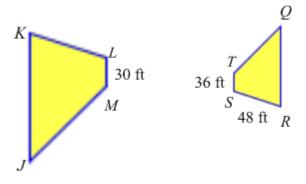
**Ex:**  $\triangle EFG \sim \triangle UVW$ . Find UV.



**Ex:** *ABCD* ~ *GHIJ*. Find *AD*.



**Ex:** *JKLM* ~ *QRST*. Find *KL*.



**Ex:** Cape Hatteras Lighthouse in North Carolina casts a shadow 83.2 feet long. A man who is 5.8 feet tall casts a shadow of 2.5 feet. Draw a diagram and use your knowledge of similar figures to determine the height of the lighthouse.