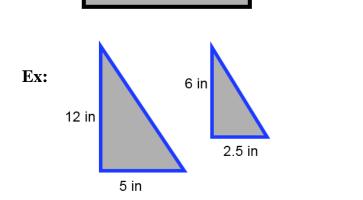
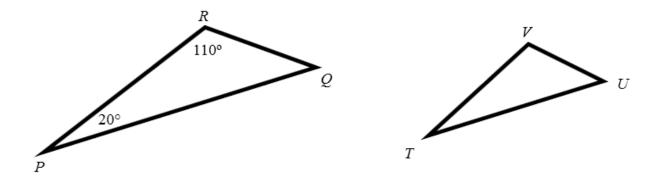
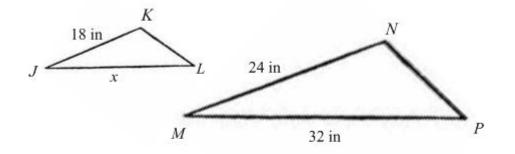
Congruent figures: two figures that are both the same and the same Symbol: \simeq Similar Figures: two figures that are the same _____ but do not have to be the same _____. (They could be though) Symbol: **<u>Corresponding parts</u>**: two ______ of two similar figures that have the same relative position. They are in the "same spot" **SIDES OF SIMILAR FIGURES ARE ______** *this means they form a _____ **CORRESPONDING Angles of Similar figures are _____** *this means they have the same _____ Decide if the given pairs of figures are similar or not. Ex: 8 in 10 in 7 in 2 in



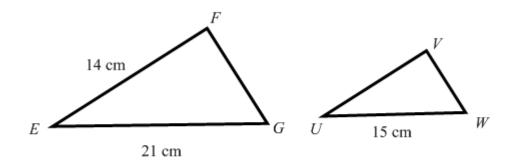
Ex: $\triangle PQR \sim \triangle TUV$. Find the measure of each missing angle measure.



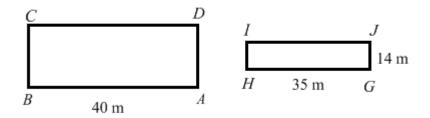
Ex: $\Delta JKL \sim \Delta MNP$. Find *JL*.



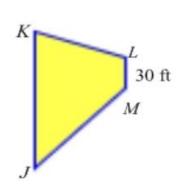
Ex: $\triangle EFG \sim \triangle UVW$. Find UV.

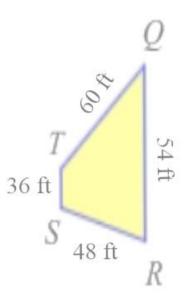


Ex: *ABCD* ~ *GHIJ*. Find *AD*.



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.

- A) Draw a diagram to represent the situation.
- B) PROVE the figures are similar by showing that all angle measurements are congruent.
- C) Use similar figures to find the height of the lighthouse.