Congruent Figures:

- 2 figures are congruent if they have:
 - The same shape
- The same size

Corresponding Angles are congruent

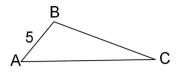
Corresponding Sides are congruent

Symbols

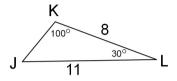
Congruent



\triangle ABC is congruent to \triangle JKL



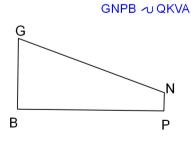
- 2. KL corresponds to BC
- 3. The length of $\overrightarrow{BC} = 8$

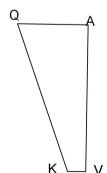


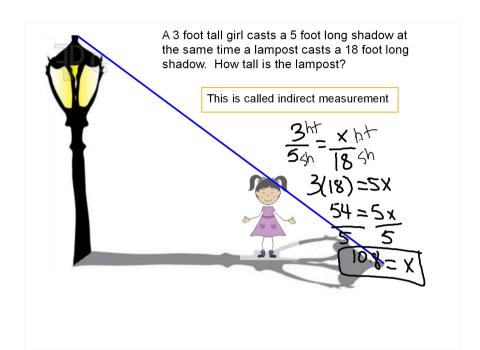
- 4. The measure of $\angle C$ is = 30°
- 5. The measure of $\angle A$ is = 50°

Given these two figures are congruent, write a congruence statement.

Ex answer:







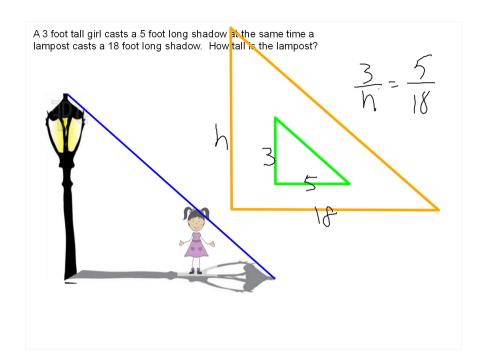
Section 4-2: Similar Figures

- 2 figures are similar if they have:
 - The same shape

Corresponding Angles are congruent

Different size

Corresponding Sides are proportional

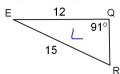


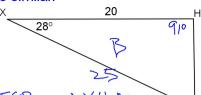
Symbols

Similar



Given the two triangles are similar.





- 1. Write a similarity statement. $\triangle EQR \sim \triangle XHM$
- 2. ∠H correpsonds to ∠ Q
- 5. The measure of \overline{XM} =
- 3. QR corresponds to #M
- 4. The measure of $\angle M = (0)^{\circ}$



 $\chi m = 25$ $\frac{12}{20} \cdot \frac{15}{\chi_M}$

A 6 feet tall boy cast a shadow of 9 feet. At the same time of day, if the shadow of tree measures 21 feet, what is the height of the tree?

