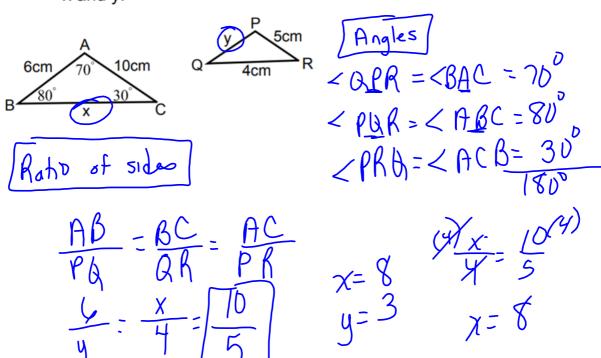
Warm-Up

April 23, 2019

 $\triangle ABC \sim \triangle PQR$ find the angle measurements of $\triangle PQR$ and the missing side measurements x and y.

ABC-APBR



Identify the 2 similar triangles and determine the missing sides.

Solve for
$$x$$

Solve y

$$\frac{x}{x} = \frac{4}{2}(3)$$

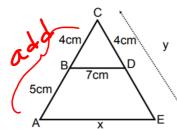
$$x = \frac{12}{3}(3)$$

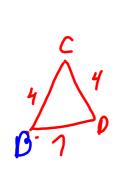
$$x = \frac{12}{3}(3)$$

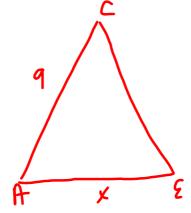
$$x = \frac{12}{3}(3)$$

$$x = \frac{14}{3}(3)$$

Identify the similar triangles and identify the missing measures.







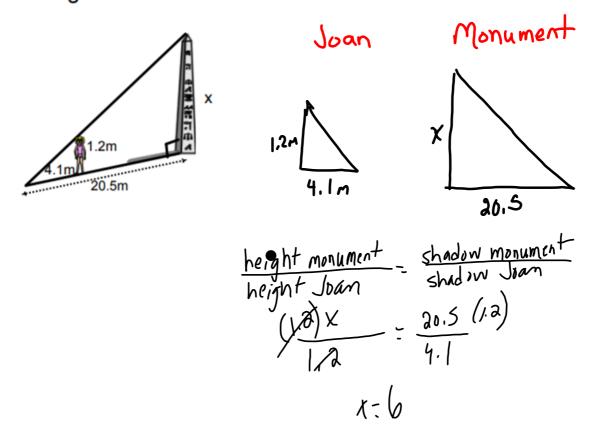
$$\frac{AE}{BD} = \frac{AC}{BC} = \frac{CE}{CD}$$

$$(x) = \frac{9}{4}$$

$$(x) = \frac{9}{4}$$

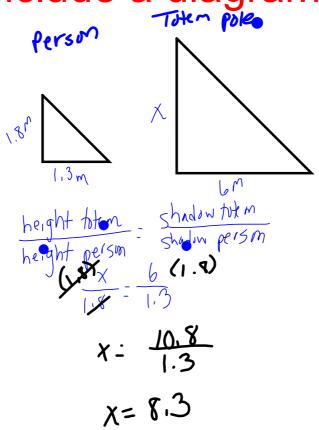
$$(x) = \frac{9}{4}$$

The length of a monument's shadow is 20.5m, when the length of Joan's shadow is 4.1m. If Joan is 1.2m tall, calculate the height of the monument.



At a certain time of day, a person who is 1.8 m tall has a shadow 1.3 m long. At the same time of day, the shadow of a totem pole is 6 m long. The sun's rays intersect the ground at equal angles. How tall is the totem pole, to the nearest tenth

of a meter? Include a diagram!!!



How do you know if triangles are similar???

1. Show three equal angles by naming the angles with 3 letter and showing which angles are equal.

OR!!!

2. Showing the ratio of corresponding sides!!!

Whenever trying to find an unknown side set up ratio of corresponding sides FIRST!!!