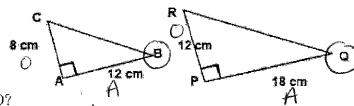
What do you know about the angles in similar triangles?

1. \triangle ABC is similar to \triangle PQR.

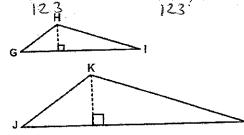
- a. Find Tan B. $\frac{C}{A} = \frac{8}{12} = 660$
- b. Find Tan Q = 12 = (447)



c. What do you notice about Tan B and Tan Q?

they are congrent

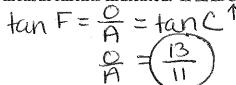
2. If ΔGHI is similar to ΔJKL , which angles are congruent?

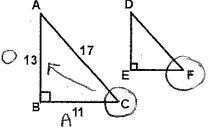


3. Given $\triangle HIJ$ is similar to $\triangle KLM$. If $Sin(J) = \frac{4}{9}$, find Sin(M)

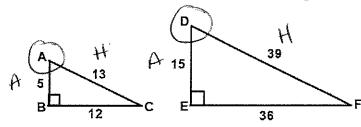
Jand m are in the same position.

4. The diagram below shows two right triangles with the side measurements indicated. If ΔABC is similar to ΔDEF, find Tan F.





5. Given ΔABC is similar to ΔDEF and the given sides, which fractions represent Cos A and Cos D?



$$\cos A = \frac{A}{H} = \frac{15}{39} = \frac{5}{39}$$
 $\cos D = \frac{A}{H} = \frac{15}{39} = \frac{5}{39}$

6. Given the graphed triangles, what is the relationship between Tan C and Tan E?

A's are similar using AA similarity.

