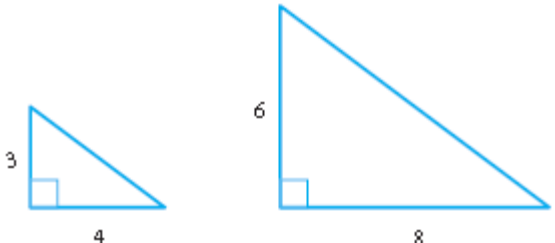
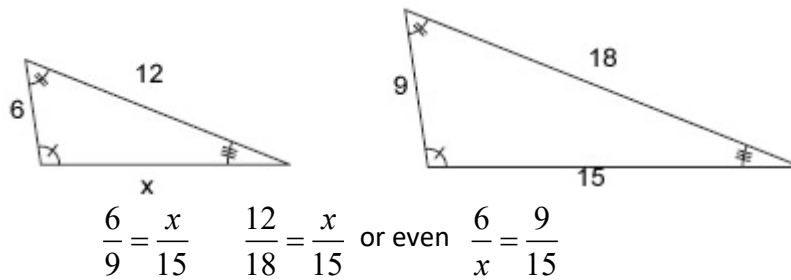


Proportions: Similar Triangles

Vocabulary

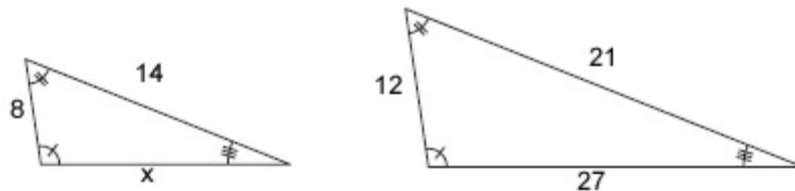
Similar	Two right triangles are similar if the ratios of corresponding sides are equivalent.
	$\frac{3}{4} = \frac{6}{8} \quad \text{or} \quad 3 \text{ is to } 4 \quad \text{as} \quad 6 \text{ is to } 8$ $\frac{3}{6} = \frac{4}{8} \quad \text{or} \quad 3 \text{ is to } 6 \quad \text{as} \quad 4 \text{ is to } 8$

In geometry, if triangles are similar, they are proportional.



TRY:

Find the length of the unknown side x , given these two similar triangles.



A 9' lamppost casts a 15' shadow. At the same time of day, how high of a tree will cast a 40' shadow?

