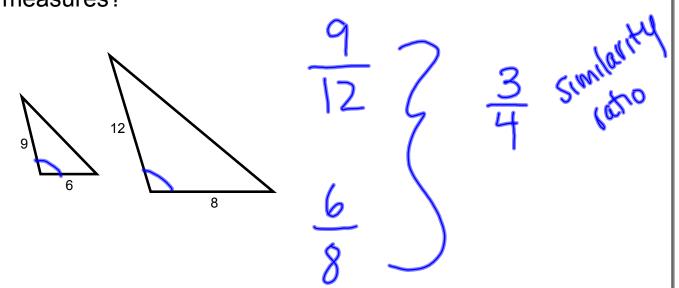
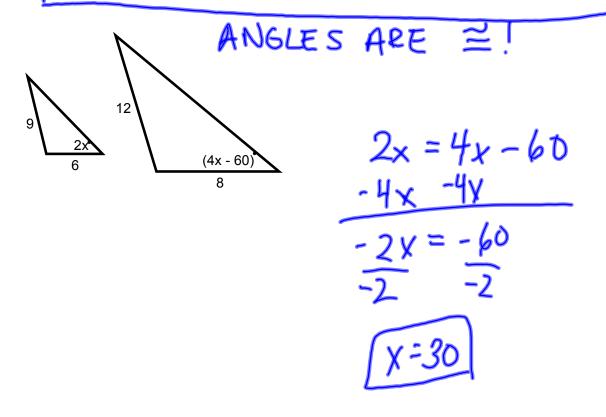
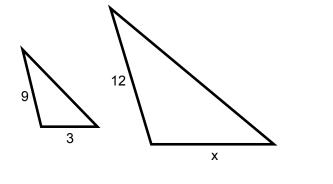
Do-now: What is the similarity ratio of the two similar figures below? What is the ratio of their angle measures?



The ratio of the corresponding angles in two similar figures is always 1:1!

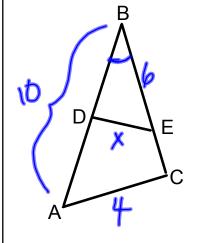


The two triangles below are similar. What is the value of x?



$$\frac{9}{12} = \frac{3}{x}$$

In the diagram below, \triangle ABC ~ \triangle EBD. If AB = 10, AC = 4, and EB = 6, what is the length of ED?



$$\frac{AB}{EB} = \frac{BC}{ED}$$

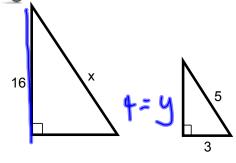
$$\frac{10}{6} = \frac{4}{x} = \frac{4}{x}$$

$$\frac{10}{6} = \frac{4}{x}$$

$$24 = 10x$$

$$2.4 = x$$

The two triangles below are similar. What is the length of x?



$$3^{2} + y^{2} = 5^{2}$$
 $9 + y^{2} = 25$
 $y^{2} = 16$
 $y = 4$

$$\frac{16}{4} = \frac{16}{5}$$

