

Similarity: \_\_\_\_\_

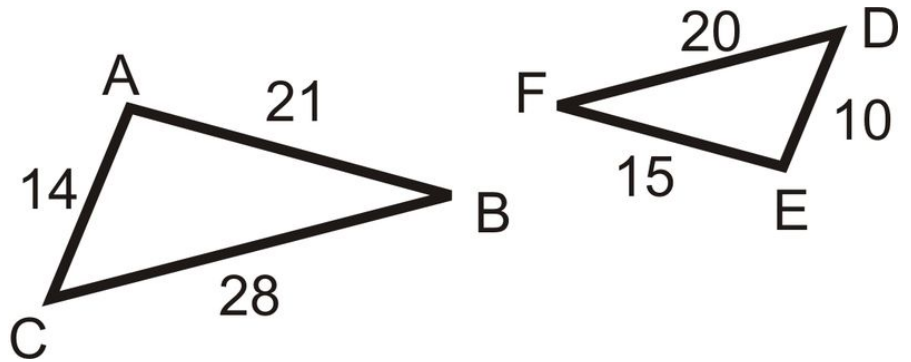
- Shapes can be translated, rotated or dilated and still be similar!

Angles are \_\_\_\_\_ Sides are \_\_\_\_\_

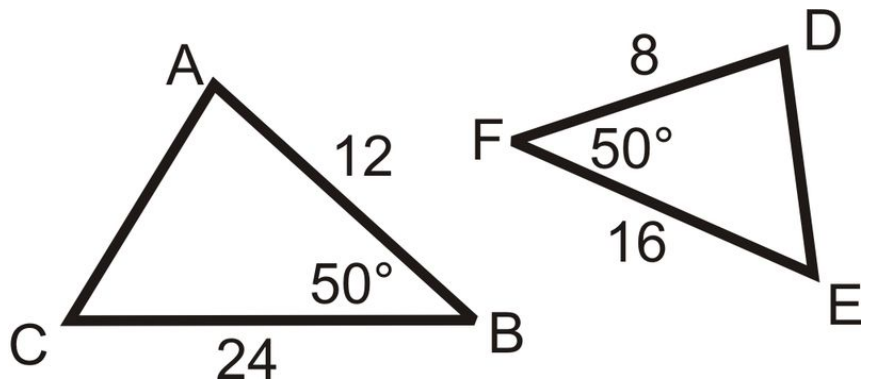
- Scale Factor: \_\_\_\_\_

Similarity Criteria:

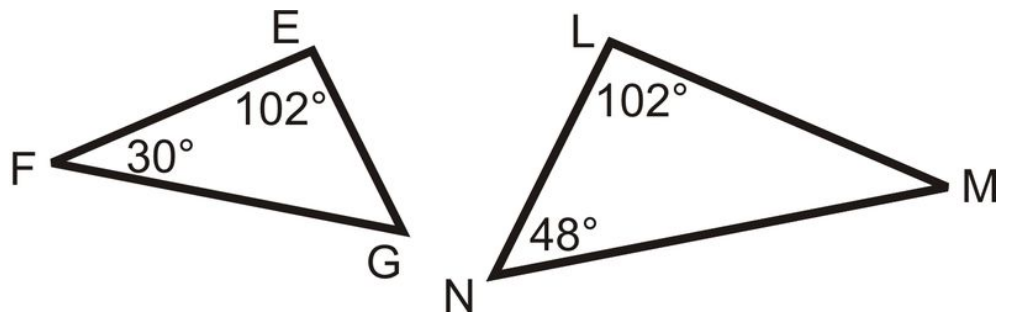
1.



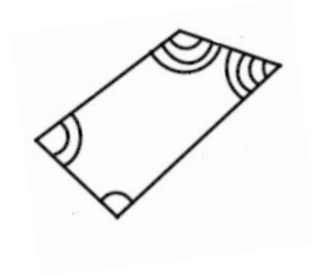
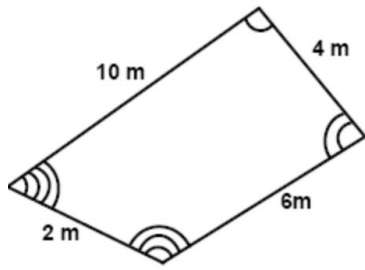
2.



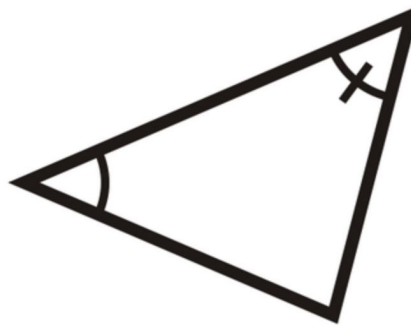
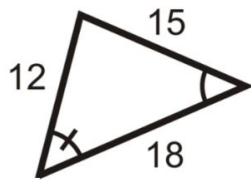
3.



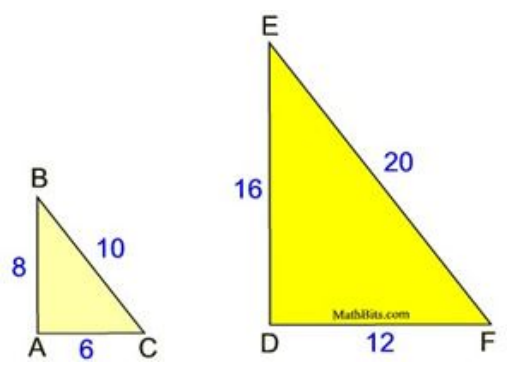
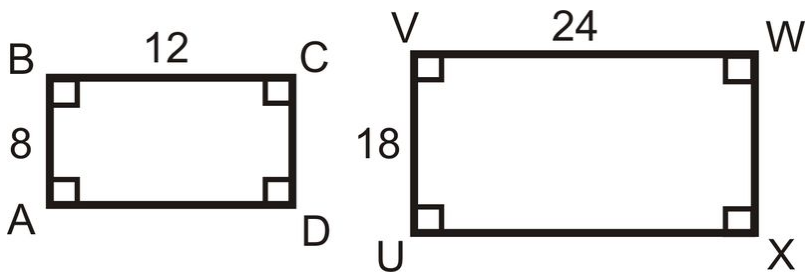
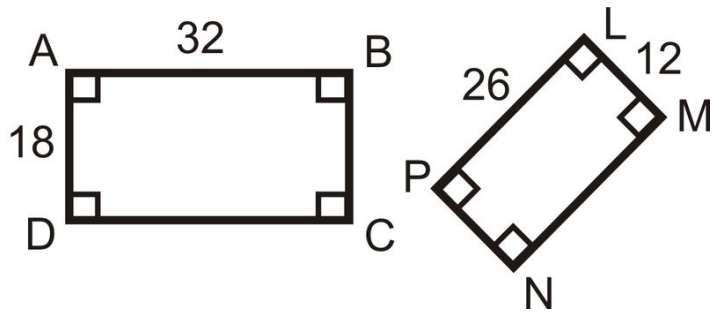
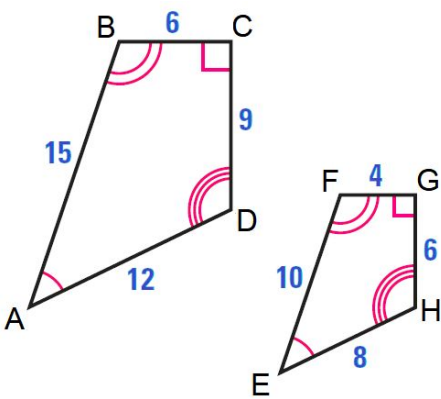
1. Using the scale factor of  $\frac{1}{2}$  to construct the image! (Be careful with angle markings!)

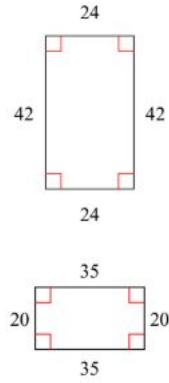
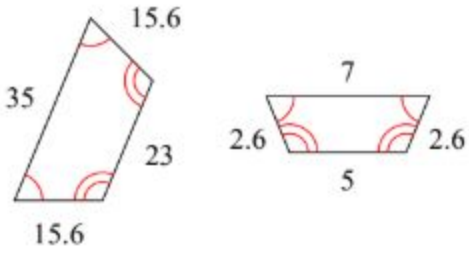


2 Using the scale factor of 4 to construct the image! (Be careful with angle markings!)

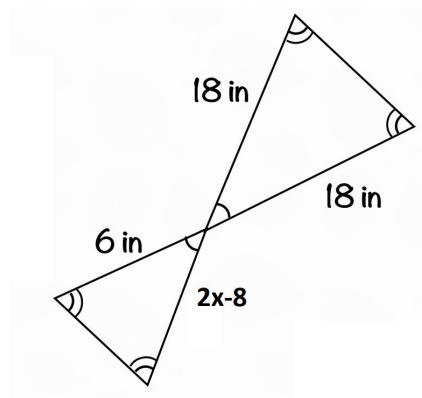
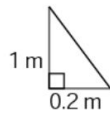
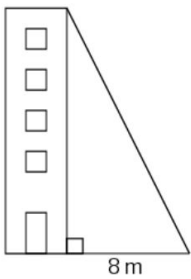
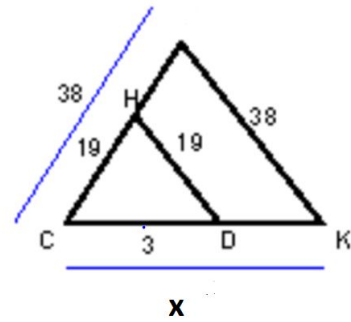
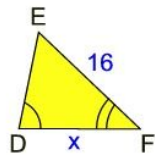
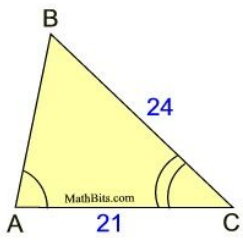


Are the following Similar?

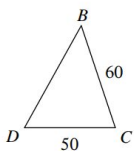
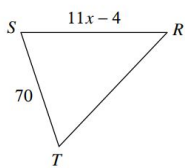




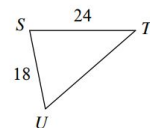
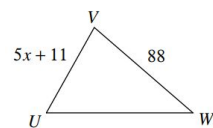
3. Solve for x:

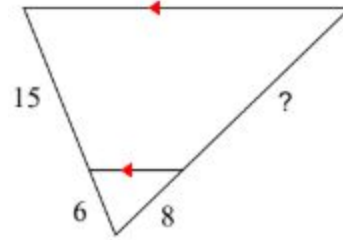
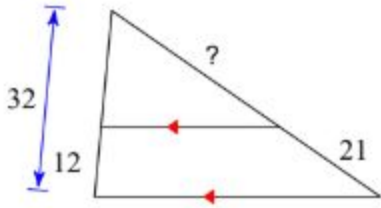


If  $\triangle TSR \sim \triangle DCB$

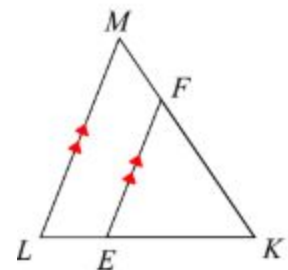
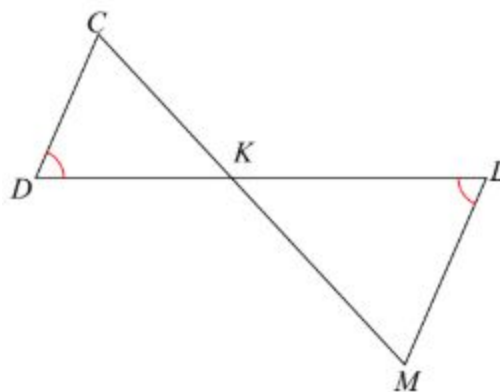
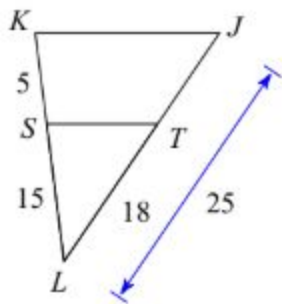
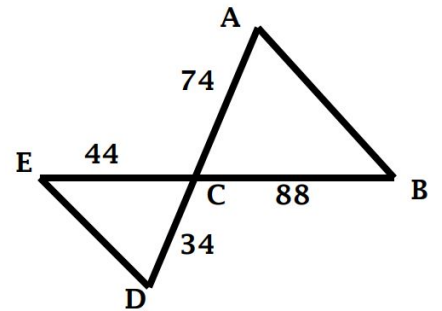
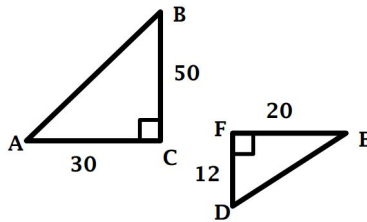
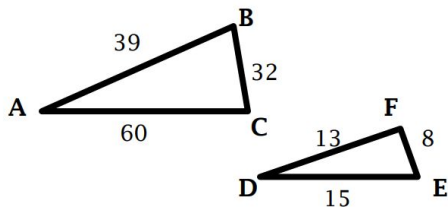
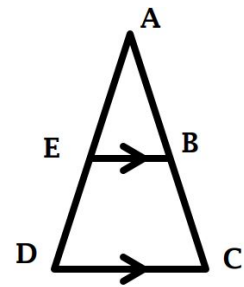
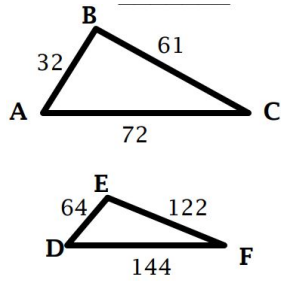
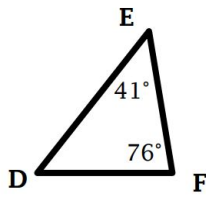
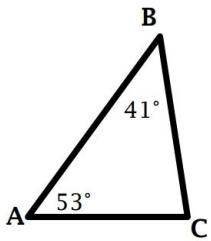


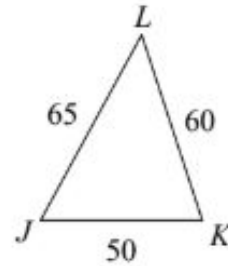
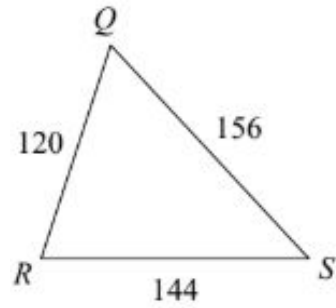
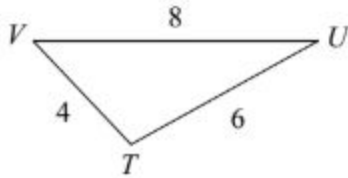
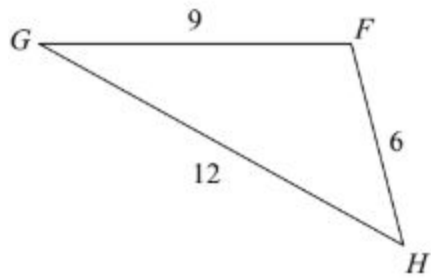
If  $\triangle UVW \sim \triangle UST$





4. Determine if the following triangles are congruent. If so, state by which criteria.





**5. Draw and Label a picture to solve:**

A 10-foot flagpole casts a shadow that is 14 feet long. If the light pole casts a shadow that is 20 feet long, how tall is the light pole?

The dugout is 8 feet tall and casts a show that is 3 feet long . If the fence casts a shadow that 12 feet long, how tall is the fence?

Mrs. Lassiter is 5 feet tall and her shadow is 20 feet long. The school cast a shadow of 250 feet. How tall is the school?