

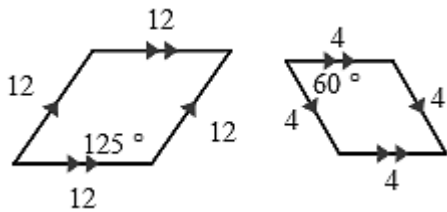
Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Scale Factor & Similarity

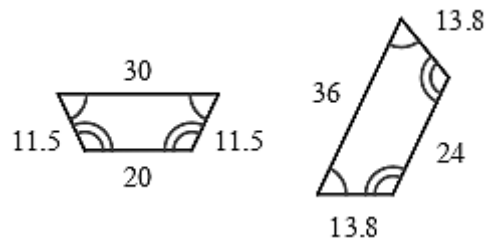
- Figures that are similar have the same shape but not necessarily the same \_\_\_\_\_.
- Two polygons are similar if and only if their corresponding angles are \_\_\_\_\_ and their corresponding sides are \_\_\_\_\_.
- A similarity ratio (scale factor) is the ratio of the lengths of the \_\_\_\_\_ sides of two similar polygons.
- Scale factor =  $k =$  \_\_\_\_\_

#### Are these figures similar?

1.

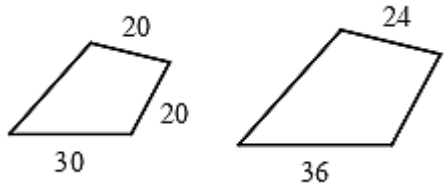


2.

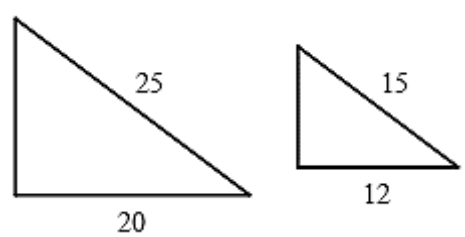


#### What is the scale factor from left to right?

3.

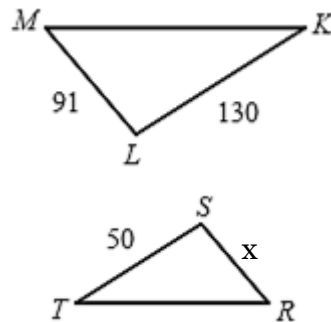


4.



#### Solve for x.

5.  $\triangle KLM \sim \triangle TSR$



6.  $\triangle STU \sim \triangle SMN$

