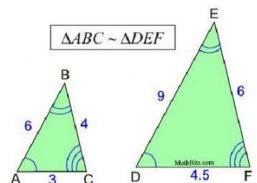
Similar Polygons

- 1. Name the corresponding angles and sides on the following figures:
 - a) AABC and ADEF

$$\overline{AB} = --$$

$$\overline{BC} = ---$$

$$\overline{CA} = ---$$

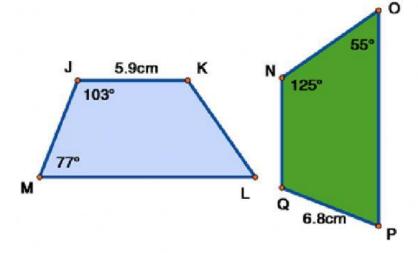


b) polygon JKLM and polygon QNOP

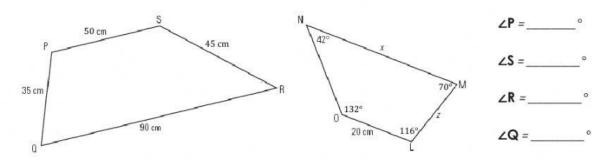
$$\overline{KL} = \overline{}$$

$$\overline{LM} = \overline{}$$

$$\overline{MI} =$$

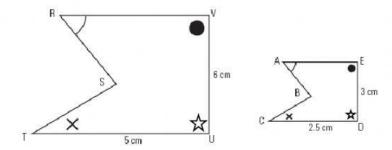


- 2. If trapezoid PQRS is similar to trapezoid LMNO:
 - a) What are the values of $\angle P$, $\angle S$, $\angle R$, and $\angle Q$?



b) What are the values of \overline{LM} , \overline{MN} , \overline{NO} , and \overline{OL} ?

3. Are the two pentagons shown below similar? (Angles marked with the same symbol are equal.)



- a) corresponding angles $\angle R$ and \angle _______

 corresponding angles $\angle V$ and \angle ______

 corresponding angles $\angle U$ and \angle ______

 corresponding angles $\angle T$ and \angle ______
- b) the scale factor for $\overline{V}\overline{U}$ and its corresponding side is:

fraction number/decimal

the scale factor for $\overline{\it UT}$ and its corresponding side is:

fraction number/decimal

_____, they ______ similar because all corresponding angles are _____ and the scale factors are ______.

4. Frank enlarges a photo to poster size. The original photo is 5" by 7". If Frank enlarges it to 1 m by 1.5 m, will it be similar to the original?



The scale factor to enlarge from 5" to 1 m is:

fraction number/decimal (round to one decimal place)

The scale factor to enlarge from 7" to 1.5 m is:

fraction number/decimal (round to one decimal place)

____, the poster _____ similar to the original because the scale factors are _____.