Similar Shapes   **Name**_____

Student Worksheet

                                          Class_____

In this activity, you will

      ✓ Explore Similar Polygons/Similar Triangles

      Polygon ABCDE   Polygon PQRST

      AB=_____   **PQ**=_____

      BC=_____   **QR**=_____

      CD=_____   **RS**=_____

      DE=_____   **ST**=_____

      EA=_____   **TP**=_____

Write the following ratios. Write the ratios using the word
   "to".

         What is the ratio of AB to PQ? _____

         What is the ratio of BC to QR? _____

         What is the ratio of CD to RS? _____

         What is the ratio of DE to ST? _____

         What is the ratio of EA to TP? _____

What do you notice about the ratios?

Measures of:

$\angle$ ABC=_____ $\angle$ PQR=_____
$\angle$ BCD=_____ $\angle$ QRS=_____
$\angle$ CDE=_____ $\angle$ RST=_____
$\angle$ DEA=_____ $\angle$ STP=_____
$\angle$ EAB=_____ $\angle$ TPQ=_____

What do you notice about the angle measures?

Based on your findings, complete the following two statements.

Two polygons are said to be similar if:
1. Their corresponding sides are all in the _____ ratio.
2. Their corresponding angles are _____in measure.