Geometry

4.5 Identify and Perform Dilations



Draw and label ΔRST , then construct a dilation of ΔRST with R as the center of dilation and a scale factor of 3.

1. Draw $\triangle RST$, then draw rays \overrightarrow{RS} and \overrightarrow{RT}

2. Using a ruler, measure RS. Multiply by the scale factor. Using the ruler mark this length RS' on \overrightarrow{RS} . Repeat for the other rays.

3. Draw $\Delta R'S'T'$

You are using a magnifying glass that shows the image of an object as three times the object's actual size. Determine the actual length of a spider when the image of the spider seen through the magnifying glass is 6.75 centimeters long.

Assignment: 204 #2, 4, 6, 8, 10, 14, 16, 18, 20, 22, 24, 26, 28, 34, 38, 50, 52, 55, 56, 59 = 20