

What is Similarity?—Recording Sheet

Date: _____

1. Using the table below, record your measurements for the 3 triangles you've been given. Round each length to the nearest whole number. Round each angle to the nearest degree.

Triangle	Hypotenuse	Shortest side	Middle side	Angles
$\triangle ABC$				
$\triangle DEF$				
$\triangle GHJ$				

2. Now that you have the measures of all of the side lengths, use them to complete the calculations below.

$$\frac{\text{Length of hypotenuse of } \triangle DEF}{\text{Length of hypotenuse of } \triangle ABC} =$$

$$\frac{\text{Length of hypotenuse of } \triangle DEF}{\text{Length of hypotenuse of } \triangle GHK} =$$

$$\frac{\text{Length of shortest side of } \triangle DEF}{\text{Length of shortest side of } \triangle ABC} =$$

$$\frac{\text{Length of shortest side of } \triangle DEF}{\text{Length of shortest side of } \triangle GHK} =$$

$$\frac{\text{Length of middle side of } \triangle DEF}{\text{Length of middle side of } \triangle ABC} =$$

$$\frac{\text{Length of middle side of } \triangle DEF}{\text{Length of middle side of } \triangle GHK} =$$

3. What do you notice about the ratios you have calculated in each column? State each ratio. **This ratio is called a scale factor.**