Math 7 **Unit – Ratios and Proportions**

Lesson 6 – Video Notes Guide

Similar Figures and Scale Drawings

By the end of this lesson you will be able to _____.

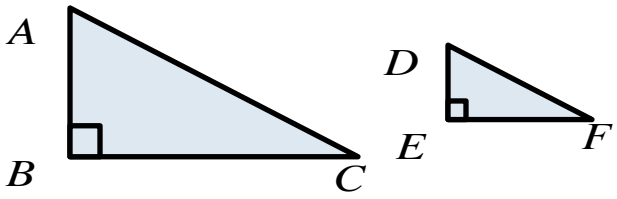
What does it mean to be similar?

In mathematics, two figures are said to be similar…

1) _____

2) _____

Example 1: ΔABC and ΔDEF are similar, identify the corresponding sides giving supporting reasons.



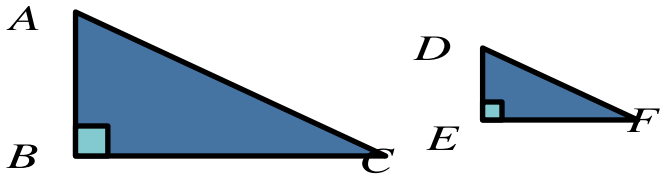
_____ and _____ _____

_____ and _____ _____

_____ and _____ _____

Example 2: Are the following triangles similar?

[Write in the lengths for the sides of the triangle given in the video.]



What can you do?

Step 1: _____

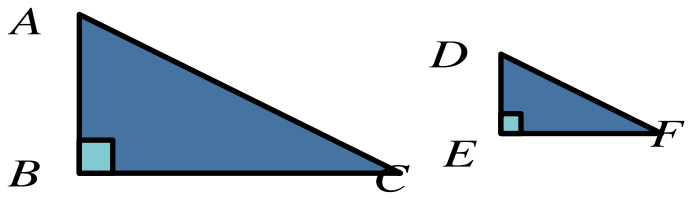
_____

Step 2: _____

_____

_____

Example 3: What is the scale factor between ΔABC and ΔDEF?
[Write in the lengths for the sides of the triangle given in the video.]



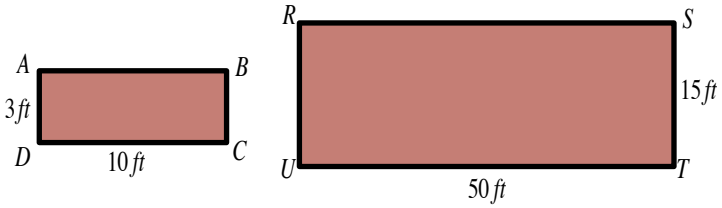
Identify two pairs of corresponding sides and write as a ratio.

The ratio of corresponding sides simplify to _____.

The scale factor from the larger rectangle to the smaller rectangle is the ratio _____.

ΔABC was _____ by _____or _____ to get the lengths of ΔDEF.

Example 4: Rectangle ABCD and RSTU are similar. What is the scale factor?



Write the lengths of corresponding sides as a simplified ratio.

The ratio between corresponding sides simplified to _____. The scale factor from the smaller rectangle to the larger rectangles was _____.

Rectangle ABCD was _____ by _____ to get the lengths of Rectangle RSTU.

Your Turn to Practice.

Determine whether each set of figures are similar. If they are, determine the scale factor.

[Write in the lengths for the sides of each figure given in the video.]