Exploring Similar Triangles

Triangles with Two Pairs of Congruent Angles

D

A

70°

70°

60°

E

F

60°

B

C

Measure the sides of ∆ABC and ∆DEF to the nearest millimeter.

$\overbar{AB}=$ $\overbar{DE}=$

$\overbar{BC}=$ $\overbar{EF}=$

$\overbar{CA}=$ $\overbar{FD}=$

Find the ratio of the lengths of each pair of corresponding sides.

$$\frac{AB}{DE}=$$

$$\frac{BC}{EF}=$$

$$\frac{CA}{FD}=$$

Recall for polygons to be similar they must meet the following criteria:

1. Corresponding angles are congruent
2. Corresponding sides are proportional

What can you say about ∆ABC and ∆DEF? Explain your thinking.

Complete this sentence:

If two angles of one triangle are congruent to two angles of another triangle, then…