
 NAME

DATE

PERIOD

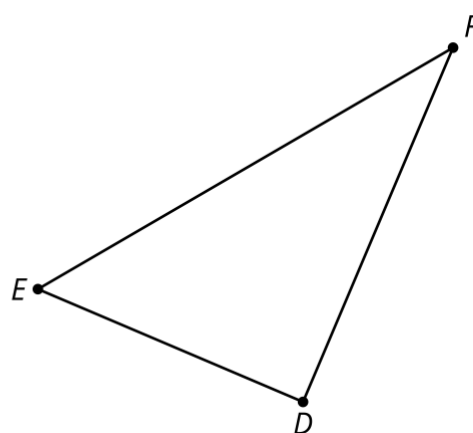
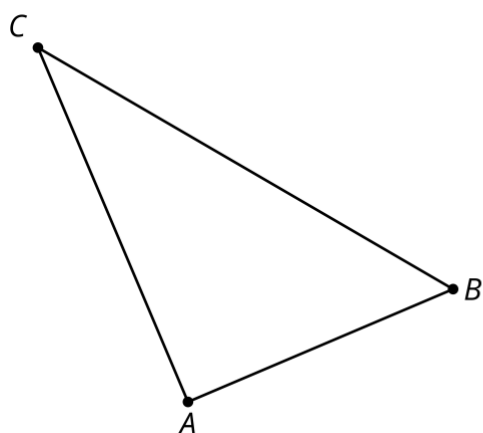
Student Task Statements

Lesson 1: Congruent Parts, Part 1

1.2: If We Know This, Then We Know That...

Triangle ABC is congruent to triangle DEF .

$$\triangle ABC \cong \triangle DEF$$



1. Find a sequence of rigid motions that takes triangle ABC to triangle DEF .
2. What is the image of segment BC after that transformation?
3. Explain how you know those segments are congruent.
4. Justify that angle ABC is congruent to angle DEF .

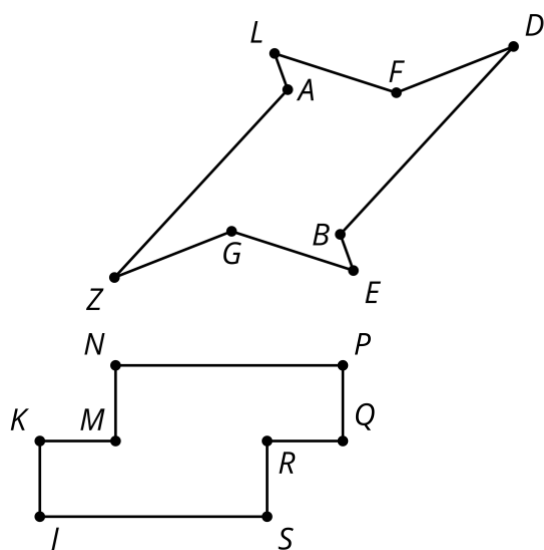
Are you ready for more?

For each figure, draw additional line segments to divide the figure into 2 congruent polygons. Label any new vertices and identify the corresponding vertices of the congruent polygons.

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1.3: Making Quadrilaterals

1. Draw a triangle.
2. Find the midpoint of the longest side of your triangle.
3. Rotate your triangle 180° using the midpoint of the longest side as the center of the rotation.
4. Label the **corresponding** parts and mark what must be congruent.
5. Make a conjecture and justify it.
 - a. What type of quadrilateral have you formed?
 - b. What is the definition of that quadrilateral type?
 - c. Why must the quadrilateral you have fit the definition?