

NAME \_\_\_\_\_

Module 8 Points, Lines, Angles, and Triangles  
 Lesson 5 Congruent Triangles

### Lesson Objectives

- Identify congruent triangles and corresponding parts of congruent triangles.
- Model and identify the properties of congruent figures.

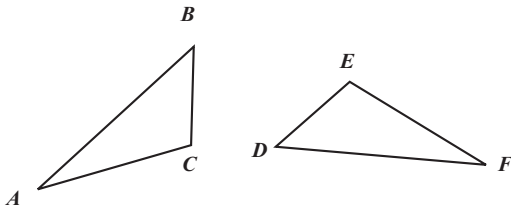
### Subtopic 1 Congruence

Two figures are congruent if they have the same \_\_\_\_\_ and \_\_\_\_\_.

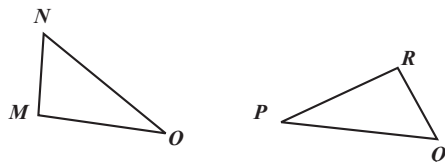
Congruent Triangles

- \_\_\_\_\_ have the same size and shape.
- Corresponding angles and sides are \_\_\_\_\_.

**1** Identify all pairs of corresponding parts in these congruent triangles.



**2** Given six congruent corresponding parts, determine a congruence statement for the two triangles.



$$\begin{array}{ll} \overline{MN} \cong \overline{QR} & \angle M = \angle Q \\ \overline{NO} \cong \overline{RP} & \angle N = \angle R \\ \overline{MO} \cong \overline{QP} & \angle O = \angle P \end{array}$$

**Subtopic 2**     **Determining Whether Triangles Are Congruent**

Side-Side-Side Congruence

Two triangles have three pairs of congruent \_\_\_\_\_ sides.

Side-Angle-Side Congruence

- Two \_\_\_\_\_ congruent
- Included \_\_\_\_\_ congruent

Angle-Side-Angle Congruence

- \_\_\_\_\_ angles congruent
- Included \_\_\_\_\_ congruent

**3** Are the triangles congruent?



**4** Which rule proves that these triangles are congruent?

