

In this activity, we would like to show that if two triangles are congruent, then they have corresponding angles and sides. Students will work in groups of at least 5. Each group will a triangular small tile or a triangular framework of rigid wires, a plane paper, ruler, protractor and a pencil.

1. Place tile of the plane paper and draw its image accurately. Label it.

2. Lift it and place it at another position in any direction and draw its image accurately. Label it.

3. Before looking at the sides and angles, what makes you conclude that the two triangles drawn are congruent?

4. Identify corresponding angle and sides

5. Measure all angles all sides

6. Compare corresponding angles. What do you notice about each pair of corresponding angles?

7. Measure the corresponding sides

8. What do you notice about each pair of corresponding sides?

9. Based on the results above, make a generalization of the features congruent triangles must satisfy.

Answer Keys

Day 53:

- 1 – 2. Different responses
3. They are congruent because drawn using the same tile
- 4 - 5. Different responses
6. They are equal
7. Different responses
9. They are equal
10. Congruent angles must have their corresponding sides and angles congruent