

**Math Chapter 11**  
**Congruence and Symmetry**

**Congruence:**  
 Figures that have the same size and shape are **congruent**.

**Example:**  These triangles are congruent because they're the same size and shape.

**Question:** If the second triangle is flipped upside-down, is it still congruent?

Are other figures below congruent?



**Yes or No:** Explain your answer.

**Hint:** If you were able to cut out any two figures, put one on top of the other, and the sides and angles all matched, then the figures are congruent.

**Symmetry:**  
 A line of symmetry is an imaginary line that divides a figure into 2 congruent parts.

**Example:**  This heart has only 1 line of symmetry.  Does this quadrilateral have any line of symmetry?

Circle the given figures that have **no** lines of symmetry and **how**?

Rectangle		Letter R	
Triangle		Letter N	
Square		Letter M	
Letter D		Letter W	