5.7 Reflections and Symmetry

Objective: Identify and use reflections and lines of symmetry.

A reflection is a transformation that creates a mirror image.

The original figure is reflected over a line that is called the <u>line of</u> reflection.

Properties of Reflections:

- 1. The reflected image is congruent to the original figure.
- 2. The orientation of the reflected image is reversed.
- 3. The line of reflection is the perpendicular bisector of the segments joining the corresponding points.

Checkpoint at the bottom of page 283.