Symmetry in Regular Polygons

Materials: scissors, rulers, regular polygons sheet

1. Work with a partner. Cut out 6 different regular polygons (polygons with all sides and all angles equal).

2. Fold each regular polygon to find all the lines of symmetry. Use a ruler to draw the lines of symmetry.

3. Paste your shapes onto a clean sheet of paper. Make a three column table to show the name of each regular polygon, the number of sides, and the number of lines of symmetry.

4. What do you notice about the number of lines of symmetry for polygons with equal sides and equal angles? Generalize a rule about the number of lines of symmetry for regular polygons.