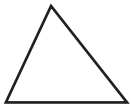


# Polygons

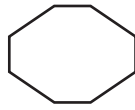
A polygon is a closed plane figure made up of line segments. Common polygons have names that tell the number of sides the polygon has.



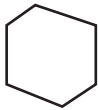
**Triangle**  
3 sides



**Pentagon**  
5 sides



**Octagon**  
8 sides



**Hexagon**  
6 sides

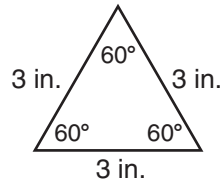


**Open Figure**



**Quadrilateral**  
4 sides

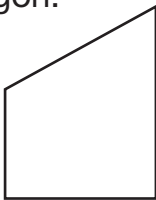
A **regular polygon** has sides of equal length and angles of equal measure.



Each side is 3 in. long.  
Each angle is 60°.

Name each polygon. Then tell if it appears to be a regular polygon.

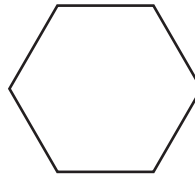
1.



\_\_\_\_\_

\_\_\_\_\_

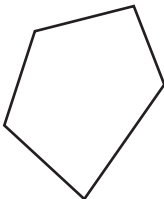
2.



\_\_\_\_\_

\_\_\_\_\_

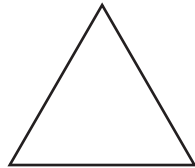
3.



\_\_\_\_\_

\_\_\_\_\_

4.



\_\_\_\_\_

\_\_\_\_\_

5. Shakira sorted shapes into two different groups. Use geometric terms to describe how she sorted the shapes.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

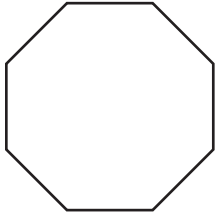
Group A	Group B

Name \_\_\_\_\_

# Polygons

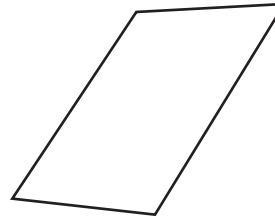
Name each polygon. Then tell if it appears to be a regular polygon.

1.



\_\_\_\_\_  
\_\_\_\_\_

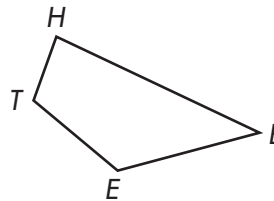
2.



\_\_\_\_\_  
\_\_\_\_\_

3. Name the polygon. Name the vertices.

\_\_\_\_\_  
\_\_\_\_\_



4. Which polygon has eight sides?

**A** quadrilateral

**B** pentagon

**C** hexagon

**D** octagon

5. **Writing to Explain** Draw two regular polygons and two that are irregular. Use geometric terms to describe one characteristic of each type.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_