

Name: \_\_\_\_\_

# Polygons

1. How many sides does an octagon have? \_\_\_\_\_

2. How many angles does a triangle have? \_\_\_\_\_

3. Does a rectangle have more sides or angles? \_\_\_\_\_

4. How many sides does a pentagon have? \_\_\_\_\_

5. Which has more sides: a hexagon or a pentagon? \_\_\_\_\_

6. How many pairs of parallel lines does a trapezoid have? \_\_\_\_\_

7. How many pairs of parallel lines does a square have? \_\_\_\_\_

8. How many pairs of parallel lines does a triangle have? \_\_\_\_\_

9. What polygon has 6 sides and 6 angles? \_\_\_\_\_

10. Name four types of quadrilaterals.  
\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

11. Does a polygon usually have more sides or more angles? Explain.  
\_\_\_\_\_  
\_\_\_\_\_

12. Is a cube a polygon? Why or why not?  
\_\_\_\_\_  
\_\_\_\_\_

## ANSWER KEY

# Polygons

1. How many sides does an octagon have? **eight**
2. How many angles does a triangle have? **three**
3. Does a rectangle have more sides or angles? **same number (four)**
4. How many sides does a pentagon have? **five**
5. Which has more sides: a hexagon or a pentagon? **hexagon**
6. How many pairs of parallel lines does a trapezoid have? **one**
7. How many pairs of parallel lines does a square have? **two**
8. How many pairs of parallel lines does a triangle have? **zero**
9. What polygon has 6 sides and 6 angles? **hexagon**

10. Name four types of quadrilaterals.

**square, rectangle, parallelogram, rhombus**

11. Does a polygon usually have more sides or more angles? Explain.

**A polygon has the same number of sides and angles because they are closed figures with non-intersecting lines.**

12. Is a cube a polygon? Why or why not?

**A cube is not a polygon. Polygons are flat, plane figures. A cube is a 3- dimensional solid figure.**