

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.