

## 4.G.A.2 Basic Concepts Involving Polygons

4.G.A.2: Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles.

Give what is asked in each item and then write your answers on the space provided.

1. Name the polygon being described.

- a. a polygon with 4 internal angles
- b. a polygon with 5 vertices
- c. a polygon with 3 sides
- d. a polygon with 7 vertices

Answers:

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_

2. Name the polygon displayed on the left side below.

a.



Answer:

3. How many sides does each polygon have?

- a. square
- b. octagon
- c. triangle
- d. pentagon

Answers:

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_

4. Draw a polygon which has two pairs of parallel sides with equal length.

Answer:

5. Write True if the statement is true and write False if otherwise.

- a. All squares are quadrilaterals but not all quadrilaterals are squares.
- b. A circle can be a polygon.
- c. A polygon having all its sides of equal length is called a square.
- d. A pentagon has 5 vertices.

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6. What is the sum of the number of vertices of a rectangle and the number of sides of a rhombus?

Answer:

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### Answer Key

4.G.A.2: Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles.

Give what is asked in each item and then write your answers on the space provided.

1. Name the polygon being described.

- a. a polygon with 4 internal angles
- b. a polygon with 5 vertices
- c. a polygon with 3 sides
- d. a polygon with 7 vertices

Answers:

- a. quadrilateral
- b. pentagon
- c. triangle
- d. heptagon

2. Name the polygon displayed on the left side below.

a.



Answer:

triangle

3. How many sides does each polygon have?

- a. square
- b. octagon
- c. triangle
- d. pentagon

Answers:

- a. 4
- b. 8
- c. 3
- d. 5

4. Draw and name a polygon which has two pairs of parallel sides with equal length.

Answer:



square and rhombus

5. Write True if the statement is true and write False if otherwise.

- a. All squares are quadrilaterals but not all quadrilaterals are squares.
- b. A circle can be a polygon.
- c. A polygon having all its sides of equal length is called a square.
- d. A pentagon has 5 vertices.

True

False

False

True

6. What is the sum of the number of vertices of a rectangle and the number of sides of a rhombus?

Answer: 8