



Practice Worksheet on Geometry

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Subject: Mathematics

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Long Answer Questions

1. Name each polygon shown in the image. Name at least one polygon with the fewest sides. List its elements: vertices, sides, and angles. What are these polygons called?
2. Identify the types of angles in the polygon and make the appropriate entries.
3. Write down which points in the figure belong to or do not belong to the circle and the circle itself.
4. Examine the figure. Write down the center of the circle, its radius, and its diameter.
5. Construct a circle with a radius of 6 cm and a circle with a diameter of 6 cm.
6. Determine if the statement is true: All squares are rectangles, but not all rectangles are squares.

7. Describe the first polygon's vertices, sides, angles, and name.

8. Describe the polygons in the picture, explaining their features and classification.

Multiple Choice Questions

1. Which polygon has the least number of sides?

- a) Triangle
- b) Square
- c) Pentagon
- d) Hexagon

2. What type of angle is 90 degrees?

- a) Acute
- b) Obtuse
- c) Right
- d) Straight

3. What is the center of the circle?

- a) A
- b) O
- c) B
- d) C

4. How many circles should be drawn in question 7?

- a) 1
- b) 2
- c) 3
- d) 4

5. Is the statement "All squares are rectangles, but not all rectangles are squares" true?

- a) True
- b) False

6. How many sides does a hexagon have?

- a) 3
- b) 4
- c) 6
- d) 5

7. What is a polygon with 4 sides called?

- a) Rectangle
- b) Quadrilateral
- c) Pentagon
- d) Triangle

8. In the given image which point is the center of the circle?

- a) Point A
- b) Point C
- c) Point O
- d) Point B

Answer Key

Long Answer Questions - Expected Responses

1. Name each polygon shown in the image. Name at least one polygon with the fewest sides. List its elements: vertices, sides, and angles. What are these polygons called?

Expected Answer: A triangle is a polygon with three sides and three angles. A quadrilateral is a polygon with four sides and four angles. A pentagon is a polygon with five sides and five angles. A hexagon is a polygon with six sides and six angles. A triangle is the polygon with the least number of sides.

2. Identify the types of angles in the polygon and make the appropriate entries.

Expected Answer: The image shows a quadrilateral with one obtuse angle, two acute angles, and one right angle.

3. Write down which points in the figure belong to or do not belong to the circle and the circle itself.

Expected Answer: Points P, K, E, and B belong to the circle. Points A and C are outside the circle.

4. Examine the figure. Write down the center of the circle, its radius, and its diameter.

Expected Answer: The center of the circle is marked as O. The radius of the circle is the distance from the center to any point on the circle; its diameter is twice the radius.

5. Construct a circle with a radius of 6 cm and a circle with a diameter of 6 cm.

Expected Answer: Draw a circle with a radius of 6 cm and a circle with a diameter of 6 cm.

6. Determine if the statement is true: All squares are rectangles, but not all rectangles are squares.

Expected Answer: All squares are rectangles, but not all rectangles are squares. A square is a special type of rectangle where all sides are equal.

7. Describe the first polygon's vertices, sides, angles, and name.

Expected Answer: The vertices of the first polygon are D, C, K, M. The sides are DC, CK, KM, MD. The angles are $\angle D$, $\angle C$, $\angle K$, $\angle M$. This polygon is called a quadrilateral.

8. Describe the polygons in the picture, explaining their features and classification.

Expected Answer: The image displays a variety of polygons, with different numbers of sides and angles. Each polygon can be classified according to the number of sides it has (e.g., triangle, quadrilateral, pentagon).

Multiple Choice Questions – Correct Answers

1. Which polygon has the least number of sides?

Correct Answer: Triangle

2. What type of angle is 90 degrees?

Correct Answer: Right

3. What is the center of the circle?

Correct Answer: O

4. How many circles should be drawn in question 7?

Correct Answer: 2

5. Is the statement "All squares are rectangles, but not all rectangles are squares" true?

Correct Answer: True

6. How many sides does a hexagon have?

Correct Answer: 6

7. What is a polygon with 4 sides called?

Correct Answer: Quadrilateral

8. In the given image which point is the center of the circle?

Correct Answer: Point O