



Classifying 2D Shapes

Name: _____

Date: _____

Grade: Grade 5

Part A: Multiple Choice

Circle the best answer for each question.

1. What is the sum of interior angles in a hexagon?

- A) 540°
- B) 720°
- C) 900°
- D) 1080°

2. A regular polygon has each interior angle measuring 135° . How many sides does it have?

- A) 6
- B) 7
- C) 8
- D) 10

3. Which of these shapes always has perpendicular diagonals?

- A) Rectangle
- B) Parallelogram
- C) Rhombus
- D) Trapezoid

4. A convex polygon has 5 sides. One of its angles is missing. The other four angles are 100° , 110° , 120° , and 95° . What is the missing angle?

- A) 105°
- B) 115°
- C) 125°
- D) 135°

Part B: Fill in the Blank

Write the correct answer on each line.

1. Each interior angle of a regular decagon measures _____ degrees.
2. A polygon with all sides and all angles equal is called a _____ polygon.
3. The number of triangles formed by drawing all diagonals from one vertex of a hexagon is _____.
4. A regular pentagon has interior angles of 108° each and _____ lines of symmetry.
5. The sum of exterior angles of any convex polygon is always _____ degrees.

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- A) 105°
- B) 115°
- C) 125°
- D) 135°

Part B: Fill in the Blank

Write the correct answer on each line.

1. Each interior angle of a regular decagon measures 144 degrees.
2. A polygon with all sides and all angles equal is called a regular polygon.
3. The number of triangles formed by drawing all diagonals from one vertex of a hexagon is 4.
4. A regular pentagon has interior angles of 108° each and 5 lines of symmetry.
5. The sum of exterior angles of any convex polygon is always 360 degrees.