



Classifying 2D Shapes

Name: _____

Date: _____

Grade: Grade 5

Part A: Fill in the Blank

Write the missing word or number on each line.

1. The sum of interior angles in a pentagon is _____ degrees.
2. Each interior angle of a regular hexagon measures _____ degrees.
3. A polygon with ten sides is called a _____.
4. The formula for the sum of interior angles of a polygon is $(n - 2) \times$ _____ degrees.
5. A regular polygon with all angles equal to 108° has _____ sides.
6. The sum of interior angles in an octagon is _____ degrees.
7. A polygon is _____ if all its interior angles are less than 180° .
8. Each interior angle of a regular triangle (equilateral) measures _____ degrees.
9. A polygon that has at least one angle greater than 180° is called _____.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each polygon to its interior angle sum.

Triangle (3 sides)	→ _____	540°
Quadrilateral (4 sides)	→ _____	360°
Pentagon (5 sides)	→ _____	720°
Hexagon (6 sides)	→ _____	180°

Answer Key • Classifying 2D Shapes • Grade: Grade 5

Part A: Fill in the Blank

Write the missing word or number on each line.

1. The sum of interior angles in a pentagon is 540 degrees.
2. Each interior angle of a regular hexagon measures 120 degrees.
3. A polygon with ten sides is called a decagon.
4. The formula for the sum of interior angles of a polygon is $(n - 2) \times$ 180 degrees.
5. A regular polygon with all angles equal to 108° has 5 sides.
6. The sum of interior angles in an octagon is 1080 degrees.
7. A polygon is convex if all its interior angles are less than 180° .
8. Each interior angle of a regular triangle (equilateral) measures 60 degrees.
9. A polygon that has at least one angle greater than 180° is called concave.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each polygon to its interior angle sum.

Triangle (3 sides)	→ <u>180°</u>	540°
Quadrilateral (4 sides)	→ <u>360°</u>	360°
Pentagon (5 sides)	→ <u>540°</u>	720°
Hexagon (6 sides)	→ <u>720°</u>	180°