



# 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  $108^\circ$  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  $180^\circ$ .
8. Each interior angle of a regular triangle (equilateral) measures \_\_\_\_\_ degrees.
9. A polygon that has at least one angle greater than  $180^\circ$  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

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### Part A: Fill in the Blank

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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  $108^\circ$  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  $180^\circ$ .
8. Each interior angle of a regular triangle (equilateral) measures 60 degrees.
9. A polygon that has at least one angle greater than  $180^\circ$  is called concave.

### Part B: Matching

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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°