



# Classifying 2D Shapes

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 5

## Part A: Multiple Choice

Circle the best answer for each question.

1. A triangle has two angles of  $55^\circ$  each. Classify it by both sides and angles.

- A) Scalene acute
- B) Isosceles obtuse
- C) Isosceles acute
- D) Equilateral acute

2. Which of the following is NOT possible?

- A) A right scalene triangle
- B) An obtuse equilateral triangle
- C) An acute isosceles triangle
- D) A right isosceles triangle

3. A triangle has angles of  $90^\circ$ ,  $45^\circ$ , and  $45^\circ$ . Which classification best describes it?

- A) Scalene right
- B) Equilateral acute
- C) Isosceles right
- D) Isosceles obtuse

4. Triangle PQR has sides 6 cm, 6 cm, and 6 cm. What is the measure of each angle?

- A)  $90^\circ$
- B)  $45^\circ$
- C)  $60^\circ$
- D)  $120^\circ$

## Part B: Fill in the Blank

Write the correct answer on each line.

1. If two angles of a triangle are  $70^\circ$  each, the third angle is \_\_\_\_\_ degrees.
2. A triangle with angles  $40^\circ$ ,  $60^\circ$ , and  $80^\circ$  is classified as \_\_\_\_\_ by its angles.
3. A triangle with sides 7 cm, 7 cm, and 10 cm is \_\_\_\_\_ by its sides and \_\_\_\_\_ by its angles.
4. The largest angle in a right triangle always measures exactly \_\_\_\_\_ degrees.
5. If one angle of a triangle is  $90^\circ$  and another is  $35^\circ$ , the third angle is \_\_\_\_\_ degrees.

**Part A: Multiple Choice**

Circle the best answer for each question.

1. A triangle has two angles of  $55^\circ$  each. Classify it by both sides and angles.

- A) Scalene acute
- B) Isosceles obtuse
- C) **Isosceles acute**
- D) Equilateral acute

2. Which of the following is NOT possible?

- A) A right scalene triangle
- B) **An obtuse equilateral triangle**
- C) An acute isosceles triangle
- D) A right isosceles triangle

3. A triangle has angles of  $90^\circ$ ,  $45^\circ$ , and  $45^\circ$ . Which classification best describes it?

- A) Scalene right
- B) Equilateral acute
- C) **Isosceles right**
- D) Isosceles obtuse

4. Triangle PQR has sides 6 cm, 6 cm, and 6 cm. What is the measure of each angle?

- A)  $90^\circ$
- B)  $45^\circ$
- C)  **$60^\circ$**
- D)  $120^\circ$

**Part B: Fill in the Blank**

Write the correct answer on each line.

1. If two angles of a triangle are  $70^\circ$  each, the third angle is 40 degrees.
2. A triangle with angles  $40^\circ$ ,  $60^\circ$ , and  $80^\circ$  is classified as acute by its angles.
3. A triangle with sides 7 cm, 7 cm, and 10 cm is isosceles by its sides and obtuse by its angles.
4. The largest angle in a right triangle always measures exactly 90 degrees.
5. If one angle of a triangle is  $90^\circ$  and another is  $35^\circ$ , the third angle is 55 degrees.