



Classifying Triangles

Name: _____

Date: _____

Grade: Grade 4

Part A: Multiple Choice

Circle the best answer for each question.

1. Maya is designing a triangular garden where all three sides must be 8 feet. Which classification fits her garden?

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

2. Which set of angles cannot form a triangle?

- A) 60, 60, 60
- B) 90, 45, 45
- C) 100, 50, 40
- D) 80, 70, 30

3. A roof truss has two sides of 10 feet and one side of 6 feet. What is its classification by sides?

- A) Equilateral
- B) Isosceles
- C) Scalene
- D) Right

4. Can a triangle be both right and obtuse at the same time?

- A) Yes, if it has two 90 degree angles
- B) Yes, if one angle is 90 and one is 100
- C) No, because the angles would sum to more than 180
- D) No, because right triangles have no 90 degree angle

Part B: Fill in the Blank

Write the correct answer on each line.

1. If all three sides of a triangular sign are 12 inches, the triangle is classified as _____.
2. A triangle with sides 5, 5, 5 has angles that each measure _____ degrees.
3. A set of angles 95, 50, and 35 degrees forms a(n) _____ triangle.
4. A triangle cannot have two angles each measuring more than _____ degrees at the same time.
5. A triangle with angles 70, 70, and 40 has two equal angles, so its sides also include two _____ sides.

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1. Maya is designing a triangular garden where all three sides must be 8 feet. Which classification fits her garden?

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Part B: Fill in the Blank

Write the correct answer on each line.

1. If all three sides of a triangular sign are 12 inches, the triangle is classified as equilateral.
2. A triangle with sides 5, 5, 5 has angles that each measure 60 degrees.
3. A set of angles 95, 50, and 35 degrees forms a(n) obtuse triangle.
4. A triangle cannot have two angles each measuring more than 90 degrees at the same time.
5. A triangle with angles 70, 70, and 40 has two equal angles, so its sides also include two congruent sides.