

Maths-7

Chapter 9: Triangle and Its Properties –Worksheet

A. Multiple Choice Questions (MCQs)

1. The sum of angles of a triangle is:

- A) 90° B) 180° C) 360° D) 270°

2. A triangle with all three sides equal is called:

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

3. A triangle having one 90° angle is called:

- A) Acute B) Right C) Obtuse D) Reflex

4. In an isosceles triangle, _____ sides are equal.

- A) 1 B) 2 C) 3 D) none

5. If one angle of a triangle is 120° , the triangle is:

- A) Acute B) Right C) Obtuse D) Equilateral

B. Fill in the Blanks

1. A triangle has _____ sides.

2. Angles less than 90° are called _____ angles.

3. The longest side of a right triangle is called the _____.

4. A triangle with all angles less than 90° is _____.

5. If two angles of a triangle are 50° and 60° , the third angle is _____.

C. Short Answer Questions

1. Name the types of triangles based on angles.
2. Can a triangle have two obtuse angles? Why?
3. Find the third angle of a triangle if the two angles are 45° and 55° .
4. Define a scalene triangle.
5. In a triangle, if two sides measure 7 cm and 7 cm, name the type of triangle.

D. Word Problems

1. The angles of a triangle are in the ratio 2 : 3 : 4. Find the measure of each angle.
2. One angle of a triangle is 40° and the other is 5 times the first. Find the third angle.
3. A triangle has sides 6 cm, 8 cm, and 10 cm. Identify the type of triangle.
4. In a right triangle, one acute angle is 35° . Find the other acute angle.
5. The perimeter of a triangle is 42 cm. Two sides measure 12 cm and 15 cm. Find the third side.