

CBSE Worksheet-1

CLASS – VII Mathematics (The triangle and its properties)

Choose correct option in questions 1 to 4.

1. How many altitudes can a triangle have?
 - a) 3
 - b) 2
 - c) 1
 - d) None of these
2. Write the side opposite to the vertex B of $\triangle ABC$.
 - a) AB
 - b) AC
 - c) BC
 - d) None of these
3. A triangle in which, two sides act as the two altitudes is _____.
 - a) acute-angled triangle
 - b) obtuse-angled triangle
 - c) right-angled triangle
 - d) None of these
4. Answer in Yes or No.
 - a) Is it possible for a triangle to have two right angles? _____
 - b) Is it possible for a triangle to have two obtuse angles? _____

Fill in the blanks:

5. A _____ is a simple closed curve made of three-line segments.
6. An _____ has one end point at a vertex of the triangle and the other end point is contained in the opposite side to the vertex.
7. The sum of interior opposite angles is ____ when the exterior angle is right angle.
8. The sum of the lengths of any two sides of a triangle is _____ the third side.
9. An exterior angle of a triangle is of measure 70° and one of its interior opposite angles is of measure 25° . Find the measure of the other interior opposite angle.
10. Is a triangle possible with length of the sides as 10.2 cm, 5.8 cm and 4.5 cm?

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Answer key

1. a
2. b
3. c
4. a. No
b. No
5. triangle
6. altitude
7. right angle or 90°
8. greater than
9. 45°
10. Yes because sum of any two sides taken is always greater than the third side.