Sub: Algebra and Geometry   **Class: 7**   **Date: 02.07.20**
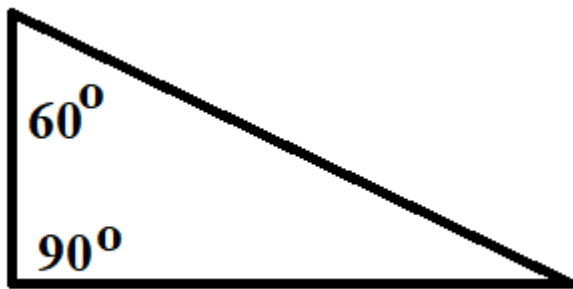**Duration: 40 min**   **Worksheet Solutions 46**   **Full Marks: 15**
TRIANGLES

Choose the Correct options:

1. A triangle has angle measurements of 30°, 70°, and 80°. What kind of triangle is it?
   (a) acute triangle
   (b) right triangle
   (c) obtuse triangle
   (d) none of the above

2. A triangle has angle measurements of 20°,90°, and 70°. What kind of triangle is it?
   (a) acute triangle
   (b) right triangle
   (c) obtuse triangle
   (d) none of the above

3. A triangle has angle measurements of 140°, 20°, and 20°. What kind of triangle is it?
   (a) acute triangle
   (b) right triangle
   (c) obtuse triangle
   (d) none of the above

4. A triangle has angle measurements of 75°, 90°, and 15°. What kind of triangle is it?
   (a) acute triangle
   (b) right triangle
   (c) obtuse triangle
   (d) none of the above

5. A triangle has angle measurements of 25°, 75°, and 80°. What kind of triangle is it?
   (a) acute triangle
   (b) right triangle
   (c) obtuse triangle
   (d) none of the above

7. A triangle has side lengths of 18 centimetres, 18 centimetres, and 22 centimetres. What kind of triangle is it?
   (a) equilateral triangle
   (b) isosceles triangle
   (c) scalene triangle
   (d) none of the above

7. A triangle has two 70° angles and one 40° angle. What kind of triangle is it?
   (a) equilateral triangle
   (b) isosceles triangle
   (c) scalene triangle
   (d) none of the above

8. When classifying a triangle by its angles, what type of triangle has two acute angles and a right angle?
   (a) acute triangle
   (b) right triangle
   (c) obtuse triangle
   (d) none of the above

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9. When classifying a triangle by its angles, what type of triangle has three acute angles?
    (a) acute triangle
    (b) right triangle
    (c) obtuse triangle
    (d) none of the above
10. When classifying a triangle by its angles, what type of triangle has one obtuse angle and two acute angles?
    (a) acute triangle
    (b) right triangle
    (c) obtuse triangle
    (d) none of the above
11. A triangle can be obtained by
    (a) dividing a circle in half
    (b) Dividing a square in half
    (c) Dividing a hexagon in half
    (d) none of the above
12. When classifying a triangle by its sides, what type of triangle has two equal sides?
    (a) equilateral triangle
    (b) isosceles triangle
    (c) scalene triangle
    (d) none of the above
13. The Triangle Sum Theorem states that the if you add all angles in a triangle you will get the magic number _____.
    (a) 45°
    (b) 90°
    (c) 180°
    (d) 360°
14. What kind of triangle has all angles equal?
    (a) equilateral triangle
    (b) isosceles triangle
    (c) scalene triangle
    (d) none of the above
 15. Find the measure of the angle indicated.

    (a) 30°
    (b) 130°
    (c) 36°
    (d) 34°