Sub: Algebra and Geometry   **Class: 7**   **Date: 01.07.20**
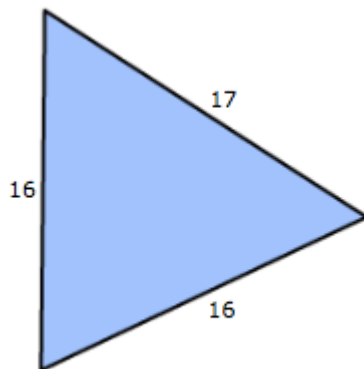**Duration: 40 min**   **Worksheet Solution 45**   **Full Marks: 15**
                              TRIANGLES

Choose the Correct options:
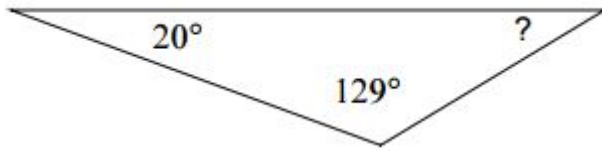
1. A triangle has angle measurements of 26°, 59°, and 95°. What kind of triangle is it?
   (a) acute triangle
   (b) right triangle
   (c) obtuse triangle
   (d) none of the above

2. A triangle has angle measurements of 54°, 52°, and 74°. 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 163°, 2°, and 15°. 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 74°, 90°, and 16°. 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 27°, 72°, and 81°. 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 19 centimetres, 19 centimetres, and 20 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 71° angles and one 38° 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 one 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?
    - (a) acute triangle
    - (b) right triangle
    - **(c) obtuse triangle**
    - (d) none of the above
11. A triangle is made up of what?
    - **(a) 3 vertices and 3 line segments**
    - (b) 3 vertices and 3 lines
    - (c) 3 vertices ans 3 rays
    - (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 is it?

   - (a) equilateral triangle
   - **(b) isosceles triangle**
   - (c) scalene triangle
   - (d) none of the above

15. Find the measure of the angle indicated.

(a) 33°
(b) 136°
(c) 36°
(d) 31°