



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



**Sub: Algebra and Geometry**

**Class: 7**

**Date: 01.07.20**

**Duration: 40 min**

**Worksheet 45**

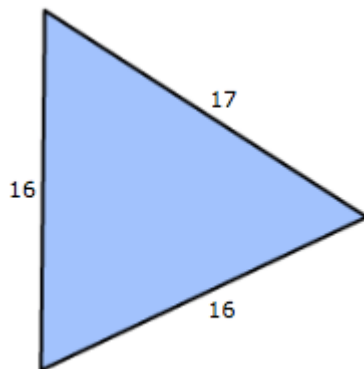
**Full Marks: 15**

## **TRIANGLES**

### **Choose the Correct options:**

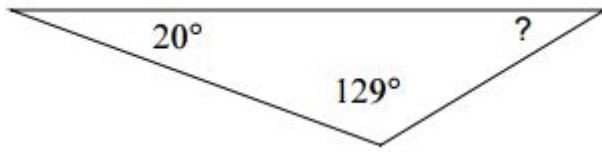
1. A triangle has angle measurements of  $26^\circ$ ,  $59^\circ$ , and  $95^\circ$ . What kind of triangle is it?
  - (a) acute triangle
  - (b) right triangle
  - (c) obtuse triangle
  - (d) none of the above
2. A triangle has angle measurements of  $54^\circ$ ,  $52^\circ$ , and  $74^\circ$ . What 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  $163^\circ$ ,  $2^\circ$ , and  $15^\circ$ . 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  $74^\circ$ ,  $90^\circ$ , and  $16^\circ$ . 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  $27^\circ$ ,  $72^\circ$ , and  $81^\circ$ . 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  $71^\circ$  angles and one  $38^\circ$  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

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 and 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 if you add all angles in a triangle you will get the magic number \_\_\_\_\_.
- (a)  $45^\circ$
  - (b)  $90^\circ$
  - (c)  $180^\circ$
  - (d)  $360^\circ$
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)  $33^\circ$
- (b)  $136^\circ$
- (c)  $36^\circ$
- (d)  $31^\circ$