



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



**Sub: Algebra and Geometry**

**Class: 7**

**Date: 02.07.20**

**Duration: 40 min**

**Worksheet 46**

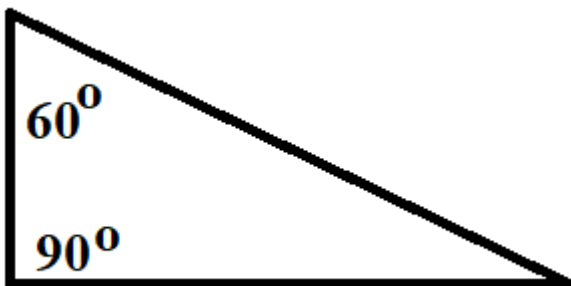
**Full Marks: 15**

## **TRIANGLES**

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

1. A triangle has angle measurements of  $30^\circ$ ,  $70^\circ$ , and  $80^\circ$ . 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  $20^\circ$ ,  $90^\circ$ , and  $70^\circ$ . 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  $140^\circ$ ,  $20^\circ$ , and  $20^\circ$ . 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  $75^\circ$ ,  $90^\circ$ , and  $15^\circ$ . 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  $25^\circ$ ,  $75^\circ$ , and  $80^\circ$ . 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 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  $70^\circ$  angles and one  $40^\circ$  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 two acute angles and a 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 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 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 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)  $30^\circ$   
(b)  $130^\circ$   
(c)  $36^\circ$   
(d)  $34^\circ$