



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



CLASS 8

SUBJECT :Algebra andGeometryWork sheet15 Answer key

Marks:15TRIANGLES

Date:6.3.21

Answer all the following questions(1×15=15)

1. In the Pythagoras property, the triangle must be _____ .

- (a) obtuse-angled
- (b) acute-angled
- (c) right-angled
- (d) None of these

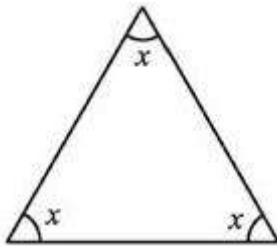
▶ (c) right-angled

2. Side opposite to the vertex Q of ΔPQR is

- (a) PQ
- (b) QR
- (c) PR
- (d) None of these

▶ (c) PR

3. Find the value of x in this figure.



- (a) 50°
- (b) 60°
- (c) 55°
- (d) None of these

▶ (b) 60°

4. The measure of three angles of a triangle are in the ratio 5:3:1.find the measure of this angles

- (a) $100^\circ, 60^\circ, 20^\circ$
- (b) $80^\circ, 30^\circ, 45^\circ$
- (c) $120^\circ, 150^\circ, 30^\circ$
- (d) $90^\circ, 90^\circ, 67^\circ$

▶ (a) $100^\circ, 60^\circ, 20^\circ$

5. The altitude and median be same for a which triangle?

- (a) Obtuse triangle
- (b) Isosceles triangle
- (c) Acute triangle

(d) Right triangle

► (b) Isosceles triangle

6. The sum of the lengths of any two sides of a triangle is _____ the third side of the triangle.

(a) greater than

(b) half

(c) less than

(d) double

► (a) greater than

7. ABC is an isosceles triangle with $AB = AC$ and AD is altitude, then _____.

(a) $\angle B > \angle C$

(b) $\angle B < \angle C$

(c) $\angle B = \angle C$

(d) None of these

► (c) $\angle B = \angle C$

8. How many altitudes can a triangle have?

(a) 1

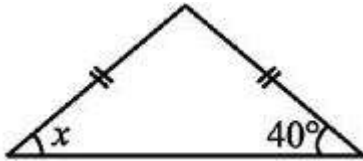
(b) 2

(c) 3

(d) None of these

► (c) 3

9. What is the measure of angle x ?



(a) 30°

(b) 40°

(c) 25°

(d) 60°

► (b) 40°

10. How many medians a triangle can have?

(a) 1

(b) 2

(c) 3

(d) none of these

► (c) 3

11. A 26 m long ladder reached a window 24 m from the ground on placing it against a wall.

Find the distance of the foot of the ladder from the wall.

(a) 10m

(b) 20m

(c) 5m

(d) 25m

► (a) 10m

12. A triangle in which two sides are of equal lengths is called _____.

(a) scalene

(b) acute-angled

(c) equilateral

(d) isosceles

► (d) isosceles

13. In a ΔABC , which of the given condition holds?

(a) $AB - BC > CA$

(b) $AB + BC < CA$

(c) $AB - BC < CA$

(d) $AB + CA < BC$

► (c) $AB - BC < CA$

14. Which is the longest side in the triangle PQR right angled at P?

(a) PQ

(b) QR

(c) PR

(d) None of these

► (b) QR

15. In a ΔABC , if $AB + BC = 10$ cm, $BC + CA = 12$ cm, $CA + AB = 16$ cm, then the perimeter of the triangle is _____.

(a) 19cm

(b) 17cm

(c) 28cm

(d) 22cm

► (a) 19cm

IndranilGhosh