



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



SUBJECT :Algebra and Geometry

Marks:15

CLASS 8

Work sheet 1
QUADRILATERAL

Date:7.4.2020

Answer all the following questions($1 \times 15 = 15$)

- Three angles of a quadrilateral are 80° , 95° and 112° . Its fourth angle is
 - 78°
 - 73°
 - 85°
 - 100°
- The angles of a quadrilateral are in the ratio 3:4:5:6. The smallest angle is
 - 45°
 - 60°
 - 36°
 - 48°
- In quadrilateral ABCD, angle A = 120° and the rest of the angles are all equal, then angle B is
 - 80°
 - 60°
 - 45°
 - None of these
- Number of pairs of opposite sides of a quadrilateral is
 - 1
 - 4
 - 2
 - none of these
- A quadrilateral with equal sides and equal angles is a
 - rectangle
 - square

- c) kite
- d) none of these

6. In quadrilateral ABCD, if AO and BO are the bisectors of angle A and angle B respectively, angle $C=70^\circ$ and angle $D=30^\circ$. Then angle AOB=?
- a) 40°
 - b) 50°
 - c) 80°
 - d) 100°
7. If the sides of a quadrilateral are produced in order, the sum of four exterior angles so formed is
- a) 360°
 - b) 180°
 - c) 90°
 - d) 270°
8. A quadrilateral is a figure made of four line segments no three of which are
- a) parallel
 - b) coincident
 - c) collinear
 - d) none of these
9. In a quadrilateral PQRS, PR and QS are known as its
- a) sides
 - b) angles
 - c) altitudes
 - d) diagonals
10. The sum of the angles of a quadrilateral is equal to
- a) 4 right angles
 - b) 2 right angles
 - c) 6 right angles
 - d) none of these
11. A diagonal divides a quadrilateral into how many triangles?
- a) 3
 - b) 2
 - c) 1
 - d) 0

12. How many pairs of adjacent angles does a quadrilateral have?
- a) 2
 - b) 1
 - c) 6
 - d) 4
13. The fourth angle of the quadrilateral that has three acute angles is
- a) acute
 - b) right
 - c) obtuse
 - d) straight
14. If the angles of a quadrilateral are x° , $(2x+13)^\circ$, $(3x+10)^\circ$, $(x-6)^\circ$, find x
- a) 49°
 - b) 14°
 - c) 7°
 - d) none of these
15. If the sum of three exterior angles of a quadrilateral is 270° , then the fourth exterior angle is
- a) 120°
 - b) 90°
 - c) 360°
 - d) 75°

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