ST. LAWRENCE HIGH SCHOOL
A JESUIT CHRISTIAN MINORITY INSTITUTION

CLASS 8

SUBJECT :Algebra and Geometry

Work sheet 1

Marks:15

QUADRILATERAL

Date:7.4.2020

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

1. Three angles of a quadrilateral are 80^0,95^0 and 112^0.Its fourth angle is
   a) 78^0
   b) 73^0
   c) 85^0
   d) 100^0

2. The angles of a quadrilateral are in the ratio 3:4:5:6.The smallest angle is
   a) 45^0
   b) 60^0
   c) 36^0
   d) 48^0

3. In quadrilateral ABCD, angle A=120° and the rest of the angles are all equal, then angle B is
   a) 80°
   b) 60°
   c) 45°
   d) None of these

4. Number of pairs of opposite sides of a quadrilateral is
   a) 1
   b) 4
   c) 2
   d) none of these

5. A quadrilateral with equal sides and equal angles is a
   a) rectangle
   b) 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=70^0 and angle D=30^0.Then angle AOB=?
a) 40^0
b) 50^0
c) 80^0
d) 100^0

7. If the sides of a quadrilateral are produced in order, the sum of four exterior angles so formed is
a)360^0
b)180^0
c) 90^0
d)270^0

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 $x°$, $(2x+13)°$, $(3x+10)°$, $(x-6)°$, 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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