

ALL SAINTS PUBLIC SCHOOL
ANNUAL EXAMINATION 2024-25

CLASS : VII

MATHEMATICS

MARK : 60

I. Choose the correct answer from the bracket.

(6)

1. When two parallel lines intersected by a transversal then a pair of ----- angles are supplementary.

(Co interior, alternative, corresponding)

2. An isosceles triangle has ----- faces.

(1,2,3)

3. A triangular pyramid has ----- faces.

(3,4,5)

4. The faces of cuboid are -----.

(Square ,rectangle ,triangle)

5. The number of lines of symmetry for a rhombus is -----.

(1 , 2 , 3)

6. Every----- of a circle is an axis of symmetry for a circle.

(Radius , diameter , chord)

II. Fill in the blanks. (5)

7. A triangle has ----- medians.

8. The sum of the measures of 3 angles of a triangle is -----.

9. A cone has ----- faces.

10. The supplement of 72° is -----.

**11. The compliment of an acute angle is an ---
----- angle.**

III. Write true or false. (5)

12. Two acute angles can form a linear pair .

13. Two right angles can form a linear pair.

14. Lines which do not intersect are called parallel lines.

15. A triangle has three altitudes.

16. A scalene triangle in which all sides are unequal in length.

IV. Match the following :. (4)

17. 1 acre. 10000sq.m
18. 1 hectare Area of a parallelogram
19. base \times height. Area of a square
20. side \times side. 4046.86 sq.m

V. 21 to 26 are two mark questions. (12)

21. Find the supplementary and complement of 50° .

22. Find the median of the following data.
25 ,24 ,22, 24 ,21 ,30, 26, 25 ,31

23. 3 angles of a triangle are in the ratio 3:4:2. Find the measure of each angles

24. Check whether 8.7 cm, 5.6 cm, and 4.9cm can be a side of a triangle.

25. Write the number of faces vertices and edges of a square pyramid.

26. State SSS congruent criteria.

VI. Solve :. (15)

27. Find the perimeter of the following:

- a. An equilateral triangle of side 12 cm.**
- b. Rhombus of side 10 cm.**

28. The area of a parallelogram is 96 cm^2 and it's base is 12 cm . Find the heights.

29. Two sides of a rectangular 15 cm and 20cm. Find the length of its diagonal.

30. State Pythagoras theorem.

31. Write the number of line symmetry of a rectangle , square and circle.

VII. Write all the questions given below. (13)

32. The following are the scores obtained by two teams A and B in a quiz competition in five rounds. Represent the data using a double bar graph.

Teams	Points scored in different rounds				
Rounds	1	2	3	4	5
A	4	8	10	12	18
B	6	8	8	12	22

33. the following data gives information about the number of children in 21 families locality.

2,1,3,4,2,2,1,3,2,6,4,3,3,2,1,1,3,2,1,1,2

Find mean, median , mode and range of the following.

34. Construct ΔABC such that $BC = 8\text{cm}$, $\angle B = 70^\circ$, $\angle C = 30^\circ$.