

ALL SAINTS PUBLIC SCHOOL

ANNUAL EXAMINATION 2024-25

CLASS : VI

MATHEMATICS

MARK : 60

I. Choose the correct answer from the bracket.

(10)

1. If the perimeter of a square is 12 m then its area is -----.

(9 sq.m , 144 sq.m , 16 sq.m , 12 sq.m)

2. The length and breadth of a triangle are 15 cm and 10 cm respectively. Its perimeter is -----.

(50 cm, 25 cm ,60 cm)

3. The number of line symmetry of a rectangle is -----.

(2,3,4)

4. A 8 sided polygon is called -----.

(Octagon, Pentagon, hexagon)

5. A parallelogram has -----lines of symmetry.

(1,2,0,4)

6. An example of a reflex angle is -----.
(30° , 130° , 230° , 90°)
7. A quadrilateral with all sides equal is a -----
-----.
(Rectangle, kite , rhombus, trapezium)
8. A triangle with two equal sides is called ---
-----.
(Equilateral , isosceles , scalene)
9. Which of the following is equation for statement “ a number increased by 11 is twice the number ”?
($x+11=2x$, $x+11=22$, $x+11=2$)
10. Which of the following is an algebraic equation?
($2x=2$, $zy>5$, $7\times 2=14$)

II. Write true or false. (5)

11. $7:9 = 11:13$

12. A point determines a location.

13. Measure of an obtuse angle is less than 90° .

14. A rectangle is not a parallelogram.

15. A pentagon has five sides.

III. Match of followings. (5)

16. Area of a square.	360
17. Complete angle.	30°
18. Straight angle.	Side x side
19. Line symmetry of a square.	180°
20. Acute angle.	4

**IV. Write necessary step for the following.
(14)**

21. Find the area of a rectangle of length 15 cm and 13 cm.

22. There are 135 supervises of 1080 workers in a factory. Find the ratio of number of supervisors to the number of workers.

23. Write algebraic expression and solve 10 added to a number gives 30.

24. Find the ratio of 80 ml to 2 l.

25. Draw a rough sketch of a simple closed curve.

26. Give reason for the following :

A rectangle is a parallelogram.

27. How many faces vertices and edges of a cube?

V. Question 28 to 33 carries 3 mark. (18)

28. Find the perimeter of :

a. an equilateral triangle side 20 cm.

b. an isosceles triangle with two equal sides 5 cm the third side 9 cm.

29. The following are the favorite colours of 20 girls. Represent this data using Tally marks.

Blue, red, red, yellow, green, green, red, blue, blue ,red , red, yellow, green ,blue yellow ,green, red, blue ,red, blue.

30. Write three numerical equations and three algebraic equations.

31. In a basket there is 30 red beads and 20 green beads.

a. Find the ratio of numbers of green beads to the number of red beads.

b. Find the ratio of the number of red beads to the total number of Green beads.

32. Check if the following terms are in proportion or not:

4,10,12,36

33. Find the number of faces edges and vertices of a cylinder.

VI. Solve the following:

34. Draw a circle and mark. (4)

a. Radius

b. Segment

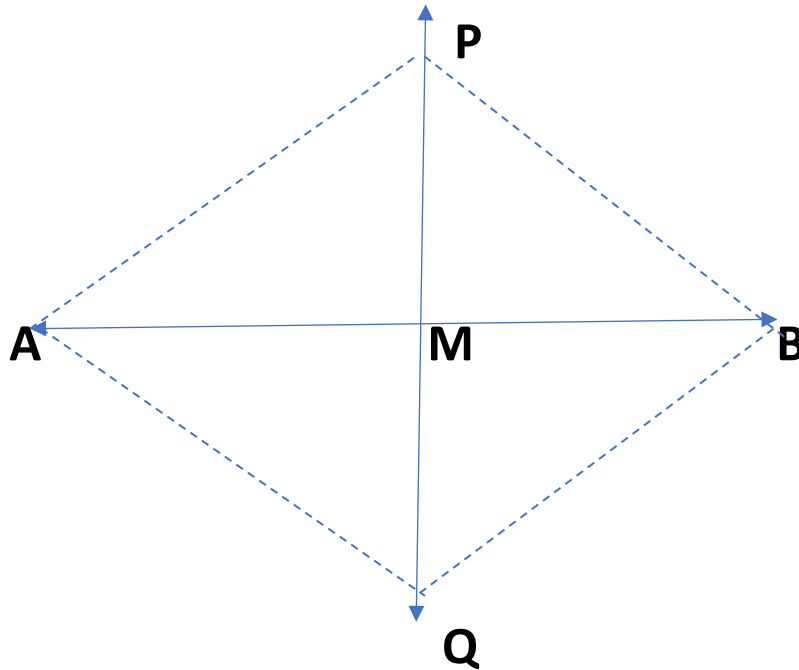
c. Diameter

d. Chord

e. Sector

35. Case based questions. (4)

35. A boy was constructing the perpendicular bisector of a given line segment $AB=10\text{cm}$. Answer the question given below.



- i. What is the value of angle PMB ?
($60^\circ, 70^\circ, 80^\circ, 90^\circ$)**
- ii. State true or false : M is the midpoint line AB ?**
 - a. True**
 - b. False**
- iii. State true or false ; M is the midpoint line PQ ?**

a. True

b. False

iv. State true or false ; Line PQ divides line AB into two equal parts .

a. True

b. False