

ALL SAINTS PUBLIC SCHOOL, CHAYAM

ANNUAL EXAM (2024– 2025) MATHEMATICS

CLASS VIII

MARKS-60

I MULTIPLE CHOICE QUESTIONS.EACH CARRIES 1 MARK

- The top view of a cuboid is a
a) Triangle b) Square c) Rectangle d) None
- The total angle at the centre of the circle is
a) 180° b) 360° c) 200° d) 90°
- The additive inverse of $\frac{4}{3}$ is
a) $\frac{3}{4}$ b) $-\frac{3}{4}$ c) $-\frac{4}{3}$ d) $\frac{1}{3}$
- The volume of a cuboid of dimensions $3\text{m} \times 4\text{m} \times 5\text{m}$ is
a) 60m^2 b) 12m^2 c) 20m^2 d) 100m^2
- The number of times an observation occurs in a data is called its
a) Range b) Frequency c) Class size d) None of these
- In aall the sides are equal and all the angles are right angles.
a) Parallelogram b) Rhombus c) Square d) Rectangle
- The side of a square whose area is 36 cm^2 is
a) 7 b) 6 c) 5 d) 4
- Sum of interior angles of a polygon is
a) $(n-2)180$ b) 90° c) $n/2$ d) 180°
- The factors of $x^2-7x+12$ are
a) $(x-4)(x-3)$ b) $(x+3)(x+4)$ c) both a and b d) none
- The value of probability lies between
a) 1 and 2 b) 0 and 1 c) 2 and 3 d) 0 and 2

(1×10=10)

II. FILL IN THE BLANKS

11. The number of faces of a cuboid is
12. The sum of exterior angles of a polygon is
13. The probability of getting a black card from 52 cards is
14. The class size of the intervals 10 -20,20 -30, 30 -40 is called
15. Adjacent angles of a parallelogram are
16. 1 kilolitre =.....Litre
17. Distance around a closed figure is called

(1×7 = 7)

III. WRITE TRUE OR FALSE

18. Volume of a cube is $l \times h$
19. Another name for a pie chart is called circle graph
20. The sum of the measure of three angles of a triangle is 360°

IV. SHORT ANSWER QUESTION.(Answer any six)

(1×3 =3)

21. The angles of a quadrilateral are 120° , 48° , 82° and x° .find the value of x ?
22. Find the simple interest on Rs 15000 at 5% per annum for 2 years.
23. Find the surface area of the cuboid having length 5 cm, breadth 4 cm and height 3 cm.
24. Find the area of a rhombus whose diagonals are 36 cm and 24 cm.
- 25.Observe the table and say whether x and y are directly proportional

X	7	14	21
y	14	28	42

26. Find the area of a circle whose radius is 6cm
- 27.Find the total surface area of a cube whose side is . 25 cm.
- 28.A die is rolled . What is the probability of getting a) prime number b) an even number
- 29.Using Euler's formula find number of faces of a polygon with number of vertices 12 and edges 30

(2×6=12)

V.LONG ANSWER QUESTIONS (Answer any six)

- 30 Find the surface area of a cylinder for which the base radius is 7 cm and height is 14 cm.
- 31 Find the area of a trapezium whose parallel sides are 45 cm and 37 cm and the distance between them is 20 cm.
32. A coin is tossed 250 times and the following results are obtained Heads-138, Tails -112. Find the probability of getting a) heads b) tails?
33. Group the data and form a grouped frequency table of class width 10.

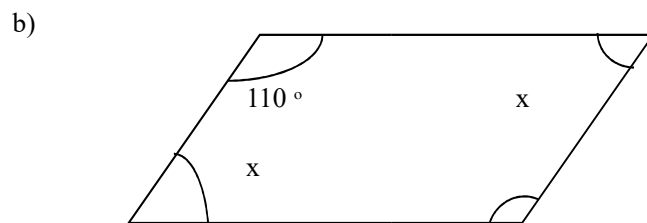
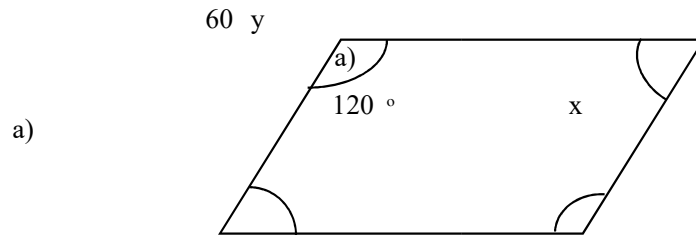
12,37,15,25,29,12,17,34,40,19

28,16,24,11,43,52,14,32,59,63

11,19,27,16,21,37,46,52,69,64

21,33,51,57,65,43,51,64,17,33

34. Find the value of x and y in the following parallelograms.



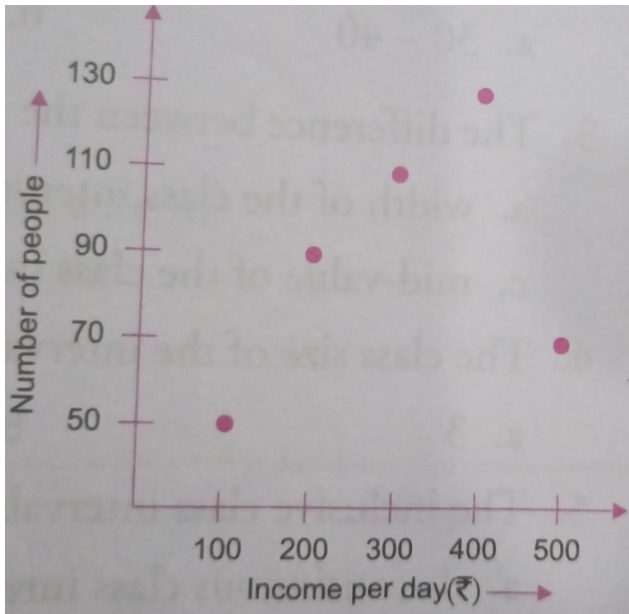
35. A can do a piece of work in 6 days and B can do the same work in 12 days. How many days will they take to do it together?
36. Using formula calculate the amount and the compound interest on Rs 8000 for 2 years at the rate of 5% per annum compounded annually.
36. Write the properties of a parallelogram

VI VERY LONG ANSWER QUESTIONS.(Answer any two)

(3 ×10 =30)

38.Read the graph and answer the following questions.

- a. How many people earn 200 per day?
- b. How many more people earn 400 than 500?
- c. Is this graph a linear graph?



39. Draw the

help of given data

Class interval	Frequency
20-30	8
30-40	5
40-50	6
50-60	3
60-70	4
70-80	5
80-90	4
90-100	3

40.Draw the piechart for the following data

Language.-English.	Hindi.	Telugu.	Tamil
Number of .-60.	80.	60.	40
Students	2×5=10)		