

Class : 8

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THIRD MID TERM TEST - 2025

MATHEMATICS

Time Allowed : 1.30 Hours]

[Max. Marks : 50

PART - I**I. Choose the correct Answer.****7x1=7**

1. The graphical representation of grouped data is -----
(A) Bar graph (B) Picto graph (C) Pie chart (D) Histogram
2. The difference between the largest value and smallest value of the given data is
(A) Range (B) frequency (C) Variable (D) None of these
3. Histogram is a graph of a ----- frequency distribution.
(A) Continuous (B) Discontinuous (C) discrete (D) None of these
4. Data is a collection of -----
(A) Numbers (B) words (C) measurements (D) all the three
5. A ----- is a line graph for the graphical representation of the continuous frequency distribution
(A) Frequency polygon (B) histogram (C) piechart (D) bar graph
6. Inclusive series is a ----- series.
(A) Continuous (B) Discontinuous (C) both (D) None of these
7. In a certain code "PHONE" is coded as "SKRQH", how will 'RADIO' be ded?
(A) SCGNH (B) VRGNG (C) UDGLR (D) SDHKQ

PART - II**II. Answer any five questions. (Q.No : 14 is compulsory)****5x2=10**

8. If the points P(5, 3), Q (-3, 3), R (-3, -4) and S form a rectangle, then find the co - ordinate of S.
9. A line passing through (4, -2) and intersects the y axis at (0,2) find a point on the line in the second quadrant.
10. Find the range of given data 53, 42, 61, 39, 63, 14, 20, 06, 26, 31, 4, 57.
11. Give two examples for primary data.
12. Prepare a frequency table for the data 3, 4, 12, 4, 5, 6, 1, 3, 2, 1, 5, 3, 6, 2, 1, 3, 2, 4.
13. Convert the given discontinuous series into a continuous series.

| | | | | | |
|------------------|-----|------|-------|-------|-------|
| Class | 0-5 | 6-11 | 12-17 | 18-23 | 24-29 |
| Frequency | 7 | 10 | 9 | 5 | 12 |

14. Represent the following data in ungrouped frequency table which gives the number of children in 25 families. 1, 3, 0, 2, 5, 2, 3, 4, 1, 0, 5, 4, 3, 1, 3, 2, 5, 2, 1, 1, 2, 6, 2, 1, 4

TPR/8/Mat/1

PART - III

III. Answer any five questions. (Q.No : 21 is compulsory)

5x5=25

15. Two equal side of an isosceles triangle are $5y - 2$ and $4y + 9$ units. The third side is $2y + 5$ units. Find 'y' and the perimeter of the triangle.
16. Draw the graph of $y = 5x$.
17. In a study for dental prople, the following data are obtained.

| Ages | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 |
|----------------|------|-------|-------|-------|-------|-------|-------|-------|
| No of patients | 5 | 13 | 25 | 14 | 30 | 35 | 43 | 50 |

18. Find the point of intersection of the line joining points $(-3, 7)$ $(2, -4)$ and $(4, 6)$ $(-5, 7)$ Also find the point of intersection of these lines and also their intersections with the axis.
19. Income from various sources for Government of India from a rupee is given below.

| Source | Corporation tax | Income tax | Customers | Excise duty | Service tax | Others |
|-------------------|-----------------|------------|-----------|-------------|-------------|--------|
| Income (in paise) | 19 | 16 | 9 | 14 | 10 | 32 |

20. Form a continuous frequency distribution table for the marks obtained by 30 students in a X public examination 328, 470, 405, 375, 298, 326, 276, 362, 410, 255, 391, 370, 455, 229, 300, 183, 282, 366, 400, 495, 215, 157, 374, 306, 280, 409, 321, 269, 398, 200.
21. Draw a histogram for the given frequency distribution.

| Age | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | 66-70 | 71-75 |
|-----------|-------|-------|-------|-------|-------|-------|-------|
| Frequency | 4 | 9 | 17 | 25 | 15 | 8 | 2 |

PART - IV

IV. Answer the following question:

1x8=8

22. a) Construct the rectangle LAND with given measurements and find its area. $LA = 8$ cm and $AD = 10$ cm.

(OR)

- b) Construct a square RAMP of a diagonal 8 cm. Also find its area.

TPR/8/Mat/2