

THIRD MID TERM TEST - 2025

STANDARD - VIII

MATHEMATICS

Time: 1.30 hrs

Marks:50

7x1=7

I Choose the correct answer.

- The intersecting point of the line $x = 4$ and $y = -4$ is _____
 a) (0, 4) b) (4, 0) c) (4, -4) d) (-4, 4)
- The upper limit of the class interval (25-35) is _____
 a) 25 b) 35 c) 45 d) 15
- If a class size is 10 and range is 80 then the number of classes are _____
 a) 15 b) 8 c) 20 d) 103
- Histogram is a graphical representation of _____ data.
 a) Proportional b) Histogram c) Grouped d) Frequency
- Inclusive series is a _____ series.
 a) Continuous b) discontinuous c) both d) none of these
- If the word PHONE is coded as SKRQH how will RADIO be coded?
 a) SCGNH b) VRGNG c) UDGLR d) SDHKQ
- If 1 kg of tomatoes is ₹ 38, then 6kg of tomatoes is _____
 a) 428 b) 328 c) 228 d) 225

II Answer any five questions. (Question number 14 is compulsory) 5x2=10

- Find the area of a rectangle of its length= 7 cm and breadth = 4cm
- 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
- The length of the side of square is 18cm. Find its area.
- What is a pie chart?
- If 30% of a budget is spent on education, what is the corresponding central angle in a pie chart?
- Find the range:
 200, 15, 20, 103, 3, 196
- Frame Additive cipher table (key=4)

III Answer any five questions. (Question number 21 is compulsory) 5x5=25

- Form an ungrouped frequency distribution table for the weight of 25 students of STD IV given below and answer the following questions.
 25, 24, 20, 25, 16, 15, 18, 20, 25, 16, 20, 16, 15, 18, 25, 16, 24, 18, 25, 15, 27, 20, 20, 27, 25
 i) Find the range of the weights.
 ii) How many of the students has the highest weight in the class?
 iii) What is the weight to which more number of students belong to?
 iv) How many of them belong to the least weight?

(2)

VIII Maths

16. Monthly expenditure of Kumaran's family is given below.
Draw a suitable Pie chart.

Particulars	Food	Education	Rent	Transport	Miscellaneous
Expenses (10%)	50%	20%	15%	5%	10%

- 1) Also find the amount spent for education of Kumaran spends ₹ 6000 for Rent.
2) What is the total salary of Kumaran?
3) How much did he spend more for food than education?
17. Construct a histogram from the following distribution of total marks of 40 students in a class.

Marks	90-110	110-130	130-150	150-170	170-190	190-210
No. of students	9	5	10	7	4	6

18. Fill in the blanks. (Use Atbash Cipher that is given below)

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A

- i) GZNRO - _____
 ii) VMTORHS - _____
 iii) NZGSVNZGRXH - _____
 iv) HXRVMXV - _____
 v) HLXRZO HXRVMXV - _____
19. Find the best buy of the following purchase.
(1) A pack of 5 chocolate bars for ₹175 or 3 chocolate bars for ₹114?
20. Match the following (a=00 z=25)
- i) mathematics - (a) 18 20 01 19 17 00 02 19 08 14 13
 ii) addition - (b) 03 08 21 08 18 08 14 13
 iii) subtraction - (c) 12 00 19 07 04 12 00 19 08 02 18
 iv) multiplication - (d) 00 03 03 08 19 08 14 13
 v) division - (e) 12 20 11 19 08 15 11 15 02 00 19 08 14 13
21. Using the given picture find the total special offer price of fresh sweets and bakery products to buy $\frac{1}{2}$ kg laddu, 1 kg cake, 6 pockets of bread.

Fresh sweets and Bakery Products : (20% off)		
Laddu (1kg)	Chocolate cake (1kg)	Healthy sliced Bread
₹ 245	₹ 550	₹ 20

IV Answer any one of the following.

1x8=8

22. a) Construct a rectangle BEAN with BE = 5 cm and BN = 3 cm. Also find its area.

(OR)

- b) Draw the graph of $y = 5x$.

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