

# THIRD MID TERM TEST - 2023

## Standard - VIII

Time : 1.30 hrs

MATHS

Marks: 50

I. Choose the correct answer:-

7×1=7

- 1) The intersecting point of the line  $x=4$  and  $y = 4$  is \_\_\_\_\_  
 a) (0, 4)                      b) (4,0)                      c) (4, -4)                      d) (-4, 4)
- 2) If a class size is 10 and range is 80 then the number of classes are  
 a) 8                                  b) 4                                  c) 10                                  d) 80
- 3) The difference between the largest value and the smallest value of the given data is \_\_\_\_\_  
 a) range                      b) frequency                      c) variable                      d) none of these
- 4) Histogram is a graph of a \_\_\_\_\_ frequency distribution.  
 a) continuous                      b) discontinuous                      c) discrete                      d) none of these
- 5) If the word "PHONE" is coded as "SKRQH" how will "RADIO" be coded?  
 a) SCGNH                      b) VRGNG                      c) UDGLR                      d) SDHKQ
- 6) The best shopping choice is to  
 a) shop at brand name stores always buy  
 b) Compare the choices before buying.  
 c) the same thing my friends bought  
 d) buy at a regular shop always.
- 7) Area of rectangle is \_\_\_\_\_ sq. units  
 a)  $a^2$                                   b)  $\frac{1}{2}bh$                                   c)  $bh$                                   d)  $lb$

II. Answer any five questions. Question No.14 is compulsory:-

5×2 = 10

8) Find the values:-

$y = x+3$	
x	0
y	0

- 9) If the side of a square is 5.7cm, then find its area?
- 10) Find the range of the given data:-  
 53, 42, 61, 9, 39, 63, 14, 20, 6, 26, 31, 4, 57
- 11) Define: Data
- 12) Frame Additive Cipher table. (Key=4)
- 13) If the length and breadth of a rectangle is 6cm and 3.6cm, then find its area.
- 14) Define: Range

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

5×5=25

- 15) Form an ungrouped frequency distribution table for the width of 25 students in STD IV given below:- 25, 24, 20, 25, 16, 15, 18, 20, 25, 16, 20, 16, 15, 18, 25, 18, 25, 15, 27, 16, 24, 20, 20, 27, 25.

(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 in (%)	50%	20%	15%	5%	10%

- 17) The following is the distribution of time spent in the library by students in a school.

Time spent (in minutes)	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
Number of students	25	40	33	28	30	20	16	8

- 18) Find the best buy of the following purchases.

A pack of 5 chocolate bars for Rs. 175 on 3 chocolate bars for Rs.114?

- 19) Fill in the blanks: (Use Atbash cipher)

- i) GZNRO = \_\_\_\_\_  
 ii) VMTORHS = \_\_\_\_\_  
 iii) NZGSVNZGRXH = \_\_\_\_\_  
 iv) HXRVMXV = \_\_\_\_\_  
 v) HLXRZOHXRVMXV = \_\_\_\_\_

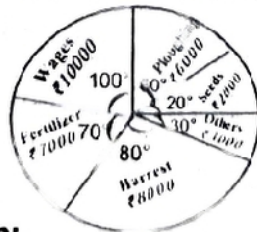
Plain Cover	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
AtPass Encryption	Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I
	S	T	U	V	W	X	Y	Z										
	H	G	F	E	D	C	B	A										

- 20) Find the values:-

Sides of the squares (c.m)	2	3	4	5	6
Areas (c.m) <sup>2</sup>					

- 21) Observe the given diagram and answer the following questions:-

- i) Find the head in which more money had been spent?  
 ii) How much amount was spent for seeds?  
 iii) Calculate the total expenditure in the diagram.  
 iv) The total angle of the diagram is \_\_\_\_\_  
 v) 80° (central angle) shows the expenditure of \_\_\_\_\_



IV. Answer any one question:-

1×8=8

- 22) Construct a rectangle HAND with HA=7 cm and AN=4cm. Also find its area.

[or]

If the points P(5, 3), Q(-3, 3), R(-3, -4) and S form a rectangle, then find the coordinate of S.

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