Roll No. .....10.....

03-10-18 1st Exam
+ 70+More

Code : H8MA803

# KENDRIYA VIDYALAYA SANGATHAN, PATNA REGION

## TERM - 1 EXAMINATION, 2018-19

**CLASS - VIII** 4895

**MATHEMATICS** Sl.No. _____

**TIME - 2½ HOURS ]** **[ MAX. MARKS - 80**

More+70+1

**General Instructions :**

(i) **Attempt all the questions.**

(ii) **The question paper consists of 28 questions. All questions are divided into 4 sections A, B, C and D.**

**Section – A comprises of 4 questions of 1 mark each. Section – B comprises of 6 questions of 2 marks each. Section – C comprises of 8 questions of 3 marks each and Section – D comprises of 10 questions of 4 marks each.**

(iii) **Question numbers 1 to 4 in Section – A are very short answer questions.**

(iv) **The question paper does not have any choice in any of the questions.**

(v) **Use of calculator is not permitted.**

### SECTION – A

1. What is the name of a polygon having six sides ?
2. What is the sum of exterior angles of a polygon ?
3. What is the square of an odd integer ?
4. Convert the ratio 3 : 4 into percentage.

### SECTION – B

5. Find a rational number between 0 and 1/2.
6. How many diagonals does a regular pentagon have ?
7. When a die is thrown, list the outcomes of an event of getting
   (i) a prime number
   (ii) not a prime number.

8. Check whether 529 a perfect square?

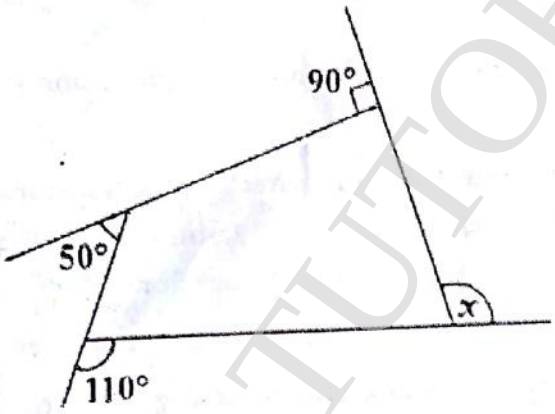
9. Find the cube root of 729.

10. A man got a 10% increase in his salary. If his original salary was Rs. 60000, find his new salary.

## SECTION – C

11. Solve the following equation : $\frac{z}{z+15} = \frac{4}{9}$

12. Find the measure x in following figure :




13. Construct a quadrilateral PQRS where PQ = 4 cm, QR = 6 cm, RS = 5 cm, PS = 5.5 cm and PR = 7 cm.

14. The weekly wages (in Rs) of 30 workers in a factory are.
830, 835, 890, 810, 835, 836, 869, 845, 898, 890, 820, 860, 832, 833, 855, 845, 804, 808, 812, 840, 885, 835, 835, 836, 878, 840, 868, 890, 806, 840
Using tally marks make a frequency table with intervals as 800-810, 810-820 and so on.

15. Write a Pythagorean triplet whose one member is 10.

16. Parikshit makes a cuboid of plasticine of sides 5 cm, 2 cm, 5 cm. How many such cuboids will he need to form a cube ?

17. Meenu bought two fans for Rs. 1200 each. She sold one at a loss of 5% and the other at a profit of 10%. Find the selling price of each. Also find out the total profit or loss.

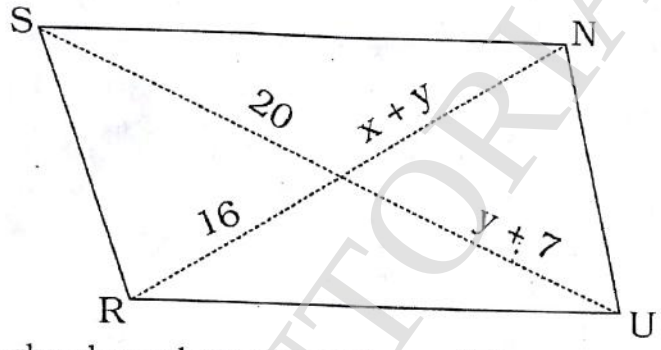
18. Find the product of 13/8 and its additive inverse.

**SECTION – D**

19. Find four rational numbers between $\frac{1}{5}$ and $\frac{1}{3}$

20. The present age of Sahil's mother is three times the present age of Sahil. After 5 years their ages will add to 66 years. Find their present ages.

21. The following figure, RUNS is a parallelogram. Find x and y. (Lengths are in cm).




22. Construct a rhombus whose diagonals are 5.2 cm and 6.5 cm long. Measure length of each side.

23. Draw a pie-chart to represent the following data :

| Flavours of ice-creams | Percentage of students preferred |
|---|---|
| Chocolate | 60% |
| Vanila | 25% |
| Other flavours | 15% |

24. A gardener has 1000 plants. He wants to plant these in such a way that the number of rows and the number of columns remain same. Find the minimum number of plants he needs more for this.

25. Find the smallest number by which each of the number 18750 must be multiplied to obtain a perfect cube.

26. The population of a place increased to 54,000 in 2003 at a rate of 5% per annum

(i) Find the population in 2001.

(ii) What would be its population in 2005 ?

27. Solve for m :

$$m - \frac{m-1}{2} = 1 - \frac{m-2}{3}$$

7/5

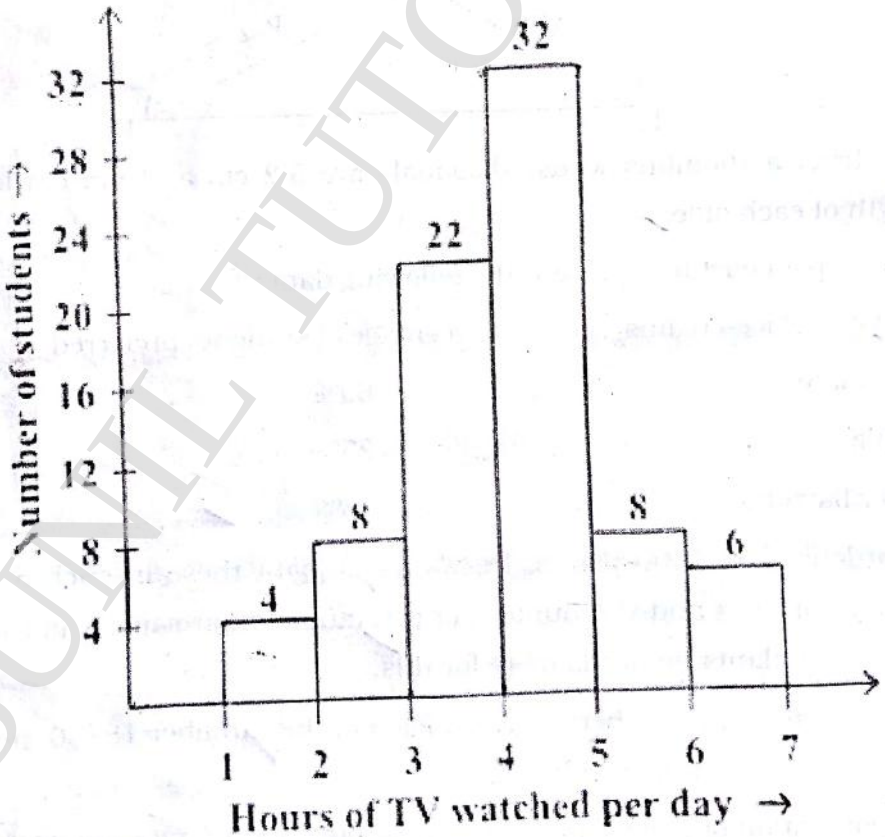
28. The number of hours for which students of a particular class watched television during holidays is shown through the given graph. Answer the following.

(i) For how many hours did the maximum number of students watch TV ?

(ii) How many students watched TV for less than 4 hours ?

(iii) How many students spent more than 5 hours in watching TV ?

(iv) What is strength of the class ?

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