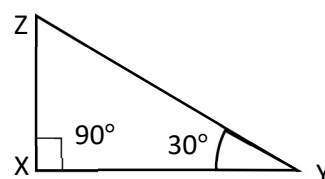


38. From the figure find  $\angle Z$ .

- (a)  $60^\circ$  (b)  $30^\circ$   
(c)  $45^\circ$  (d)  $30^\circ$



39. Simplify :  $8 - 2.5 \div 5 \times 2 + 1$

- (a) 8 (b) 7 (c) 9 (d) 10

40. Find the value of x:  $89.452 - \boxed{x} = 27.453$

- (a) 62.089 (b) 67.724 (c) 62.15 (d) None of these

41. Which of the following has the same value as  $\frac{4}{5} \div 3$  ?

- (a)  $\frac{5}{4} \times 3$  (b)  $\frac{4}{5} \times \frac{1}{3}$  (c)  $\frac{5}{4} \times \frac{1}{3}$  (d)  $\frac{12}{15}$

42. A square park is fenced by a rope of length 32 m. Find the side of the park.

- (a) 6 m (b) 7 m (c) 8 m (d) 9m

43. What must be added to 87601 to make it one million?

- (a) 901239 (b) 912399 (c) 901249 (d) 902391

44. Which of the following Roman Numeral represents the given sum?  $1140 + 869$

- (a) MMIX (b) MCXL (c) MCLX (d) DXVI

45. Which of the following is true?

- (a)  $3 \div 0 = 0$  (b)  $0 \div 3 = 0$  (c)  $732 \times 1 = 1$  (d) None of these

46. Which of the following numbers are divisible by 2 but not by 4 ?

- (a) 2456 (b) 9026 (c) 316 (d) 28

47. Study the pattern and complete the series. 1, 4, 9, 16, 25, \_\_\_\_\_

- (a) 36 (b) 49 (c) 32 (d) 41

48. If diameter of a circle is 32 cm, find the radius in cm.

- (a) 64 (b) 16 (c) 32 (d) 41

49. If your weight is 30 kg and your brother's weight is 20% more, what is the weight of your brother?

- (a) 32 kg (b) 52 kg (c) 39 kg (d) 36 kg

50. How many right angles are there in a straight angle?

- (a) 2 (b) 5 (c) 4 (d) 1

**\* All the best \***



## MATHEMATICS TALENT HUNT 2024

Organized by : The Pi Group of Mathematics (TPGM), Cooch Behar

Registration No. – S0031696 of 2022-23

**Class – V**

**Full Mark : 100**

**Time : 1 Hr 30 mins.**

### Instructions to the Candidates

- Candidates must write their Name, Class, Roll No. allotted for the exam and Name of their School correctly in the specific places of the answer sheet.
- There are 50 questions of 2 marks each. Four possible options of answer are given for each question.
- Candidates should choose the correct option and completely darken the circle with that option written in it in the answer sheet (OMR). For example, say the correct option for Question Number 10 is (c), then the candidate should darken the circle completely with 'c' written in it against the number 10 of the answer sheet. Use black ball pen or pencil for darkening.
- There is no negative marking.

1. Predecessor of CMLXIX is

- (a) 870 (b) 970 (c) 968 (d) 869

2. If  $P = \text{CMXLIX}$  and  $Q = \text{CMLXVIII}$  then which of the following option is correct?

- (a)  $P > Q$  (b)  $P < Q$  (c)  $P = Q$  (d) Can't be determined

3. Identify the number: (i) It is a 3 digit number. (ii) All of its digits are different. (iii) The sum of all of its digits is 15. (iv) The tens digit is three times the ones digit.

- (a) 651 (b) 564 (c) 726 (d) 762

4. What should be subtracted from 145.32 to get 85.8?

- (a) 49.52 (b) 49.72 (c) 59.52 (d) 58.62

5. What is the value of  $(825.23 + 425.68)$  when rounded off to nearest tenths?

- (a) 1236.5 (b) 1251 (c) 1250.9 (d) 1252.2

6. In an electronic shop, there are 450 electronic items. Out of which,  $\frac{5}{18}$  are electric fans and rest are other items. How many other items are there in the shop?

- (a) 185 (b) 325 (c) 275 (d) 260

7. Find the value of  $4\frac{1}{10} - [3\frac{1}{4} + \{1\frac{1}{3} - (1\frac{1}{3} - 1\frac{1}{2})\}] + 1$

- (a)  $\frac{41}{60}$  (b)  $\frac{8}{17}$  (c)  $\frac{31}{60}$  (d) None of these

8. The total capacity of containers X and Y is 30.32 L. If the capacity of containers X, Y and Z all together is 46.06 L, then the capacity of container Z is

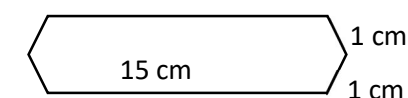
- (a) 15.74 L (b) 12.58 L (c) 19.36 L (d) 16.49 L

9. Which of the following angles represents an obtuse angle?

- (a) (b) (c) (d)

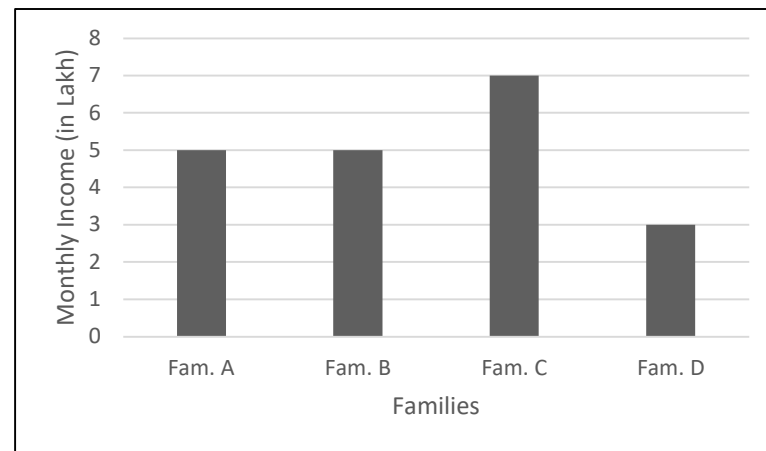
10. Find the perimeter of the following figure

- (a) 30 cm (b) 34 cm  
(c) 36 cm (d) 38 cm



11. Find the area of the rectangle, whose length is 35 cm and perimeter is 90 cm.  
 (a) 450 sq. cm (b) 350 sq. cm (c) 310 sq. cm (d) 400 sq. cm

**Direction for answering Q. No. 12 – 14 : The given bar graph shows the monthly income of 4 families in a housing estate. Study it and answer the following ( 12 – 14 ) question.**



12. The amount of money earned by family C is \_\_\_\_\_ more than family D.  
 (a) Rs. 4 lakh (b) Rs. 3 Lakh (c) Rs. 5 Lakh (d) Rs. 7 Lakh
13. What fraction of families earned less than Rs. 4 Lakh?  
 (a)  $\frac{1}{4}$  (b)  $\frac{3}{4}$  (c)  $\frac{2}{3}$  (d)  $\frac{3}{5}$
14. How many families have income more than Rs. 300000 ?  
 (a) 1 (b) 2 (c) 3 (d) 4
15. Complete the series – 15, 90, 165, 240, 315, \_\_\_\_\_.  
 (a) 350 (b) 480 (c) 190 (d) 390
16. Arrange the given words as they occur in a dictionary and choose the correct sequence.  
 i. Gravity ii. Grave iii. Green iv. Greedy v. Greasy  
 (a) i, v, iv, iii, ii (b) i, v, iv, ii, iii (c) ii, i, v, iv, iii (d) ii, i, iv, v, iii
17. There were 128 people in a party.  $\frac{3}{8}$  of them were men. How many women are there in the party?  
 (a) 84 (b) 92 (c) 80 (d) 78
18.  $0.0024 + 0.024 + 0.0204 =$  \_\_\_\_\_ ?  
 (a) 0.048 (b) 0.0048 (c) 0.4068 (d) 0.0468
19. The average of 4 numbers is 16 and the average of another 4 numbers is 20. Find the average of the 8 numbers taken together.  
 (a) 18 (b) 19 (c) 20 (d) 16
20. Simplify :  $92 \div [18 + 4 \{ 6 + (12 - \overline{10 + 1}) \}]$   
 (a) 0 (b) 1 (c) 2 (d) 4
21. 15% of Rs. 10 = \_\_\_\_\_ paise.  
 (a) 15 (b) 150 (c) 180 (d) 100
22. Find the volume of a cuboid whose length is 1 m, breadth 50 cm and height 25 cm.  
 (a) 1250 cu cm (b) 12500 cu cm (c) 125000 cu cm (d) 1250000 cu cm

23. What is the missing number in the box?  
 3 thousands + 100 hundreds + 520 tens =   
 (a) 300152 (b) 301520 (c) 310520 (d) None of these
24. Find the greatest 4-digit number that can be formed by using the given digits each only once :  
 5, 7, 0, 8  
 (a) 8507 (b) 8750 (c) 8705 (d) 8570
25. Find the average of the given numbers.  $2, 0, 2\frac{1}{2}, 3\frac{1}{2}$   
 (a) 0 (b)  $\frac{7}{2}$  (c)  $\frac{5}{2}$  (d) 2
26. From the given figure find  $\angle AOD$ .  
 (a)  $40^\circ$  (b)  $140^\circ$   
 (c)  $100^\circ$  (d)  $80^\circ$
- 
27. Find the breadth of a rectangular figure whose area is 2 sq. m and length is 200 cm.  
 (a) 2 m (b) 20 m (c) 1 m (d)  $\frac{1}{2}$  m
28. A cuboid measures 36 m X 24 m X 18 m. How many cubes of edge 6 m can be cut from the cuboid?  
 (a) 72 (b) 36 (c) 24 (d) 3
29. If cost of a book was Rs. 120 in a month, the same book costs Rs. 150 in next month. Find the percentage increase in the cost of the book.  
 (a) 12% (b) 15% (c) 20% (d) 25%
30. Find the area of the figure.  
 (a) 9 sq. cm (b) 20 sq. cm  
 (c) 10 sq. cm (d) 18 sq. cm
- 
31. Find the two decimal fractions whose sum is 1 and difference is 0.5.  
 (a) 0.25, 0.75 (b) 0.35, 0.65 (c) 0.45, 0.55 (d) 0.5, 0.5
32. Find the smallest number which when divided by 6, 8, 12, 15 and 20 leave the same remainder.  
 (a) 120 (b) 125 (c) 130 (d) 135
33. The HCF of two numbers is 12 and their LCM is 672. If one of the numbers is 96, find the other number.  
 (a) 184 (b) 100 (c) 84 (d) 168
34. Write the smallest digit in the ones place so that the number 399\_\_ become divisible by 3.  
 (a) 0 (b) 1 (c) 2 (d) 3
35.  $(11 \times 8) - 6$    $11 \times (8 - 6)$ . Which symbol is correct in the box?  
 (a) = (b) > (c) < (d) None of these
36. You have ₹ 75.  $\frac{3}{5}$  of the amount you spent for buying some chocolate. How much money left with you after buying the chocolates?  
 (a) Rs. 30 (b) Rs. 35 (c) Rs. 45 (d) Rs. 40
37. If in the  $\triangle ABC$ ,  $\angle A = 90^\circ$  then hypotenuse is  
 (a) AB (b) BC (c) CA (d) None of these