MI CHAMPS INDIA

AIMCE All India MATH Challenge Exam

CLASS V 2023-24

Name of the Student :_____ Roll No.: | | | | | | | |

Name of the School :_____ Date : _____

Class : V Subject: Math Time: 60 Mins.

Instructions to the Candidate

1. Each question carries 1 mark. There is no negative marking.
2. Separate Optical Mark Reader (OMR) Answer Sheet is supplied to you along with question paper booklet.
3. Read the questions carefully and fill in the circle corresponding to your answer. Fill in the circle Completely.
4. Rough work should be done only in the space provided in the Question Paper Booklet.
5. Return the OMR Answer sheet to the invigilator before leaving the examination hall.
6. You can carry the question paper with you after completing the examination.
7. Once you enter the examination hall, you are not permitted to leave till the end of the examination.

1. **43,29,52,280 ☐ 43,29,25,280**

A. > **B.** < **C.** = **D.** None of these

2. **Predecessor of 100, 000, 000 is _____.**

A. 99999999 **B.** 9999999 **C.** 999999 **D.** 999999999

3. **The roman numeral for Greatest two digit number is _____.**

A. IC **B.** LIL **C.** XCIX **D.** None of these

4. **Farmer Gopal packed an equal number of oranges into each of the 15 baskets. If each basket contained 85 oranges, how many oranges did he pack?**

A. 100 **B.** 1527 **C.** 1275 **D.** 1725

5. **What number am I ?.**

• I am a two-digit even number. • I am a common multiple of 6 and 7.

• I have a total of 8 factors.

A. 35 **B.** 42 **C.** 36 **D.** 84

6. The difference between (8720 x 10) and 15498 equals _____.

A. 71702 **B.** 77001 **C.** 71720 **D.** 77210

7. **Which of the following is equivalent to 2/5 ?**

A. 0.25 **B.** $2 \times \frac{1}{5}$ **C.** 2.5 **D.** 4%

8. **Which of the following do not show 0.8 of the figure is shaded?**

A.  **B.** 

C.  **D.** 

9. Sonia talked on the telephone to two friends. She talked to Shivani for $\frac{1}{4}$ hour, and to Geetika for $\frac{1}{3}$ hour. How much time did Sonia spend on the telephone ?

A. $\frac{1}{6}$ hour **B.** $\frac{2}{7}$ hour **C.** $\frac{5}{12}$ hour **D.** $\frac{7}{12}$ hour

10. **Water freezes at 0° C which is same as _____.**

A. 35° F **B.** 33° F **C.** 32° F **D.** None of these

11. **The following time was seen on Samrat and Varun's watch when the actual time was 1.28 pm.**





Samrat's watch Varun's watch

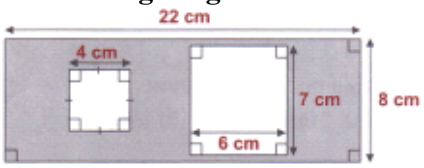
Calculate the time shown on Samrat's watch when the time on Varun's watch was 5 minutes to midnight.

A. 11:30 pm **B.** 12:17 pm **C.** 11:55 pm **D.** 11:17 pm

12. **Longest chord of a circle is _____.**

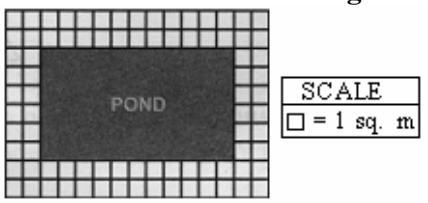
A. Radius **B.** Diameter **C.** Chord **D.** None of these

13. **Find the area of the shaded part in the figure given below.**



A. 139 sq. cm **B.** 118 sq. cm **C.** 126 sq. cm **D.** 152 sq. cm

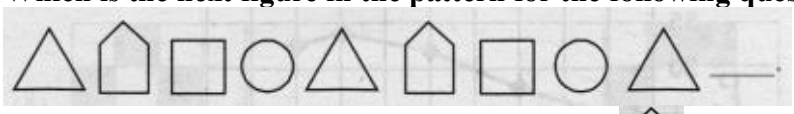
14. **The shaded area in the diagram below represents the pond in the park.**



What is the area of the pond?

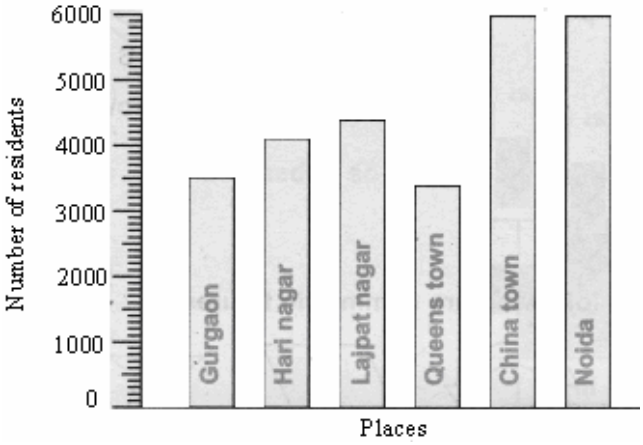
A. 34 sq. m **B.** 66 sq. m **C.** 84 sq. m **D.** 150 sq. m

15. **Which is the next figure in the pattern for the following question?**



A.  **B.**  **C.**  **D.** 

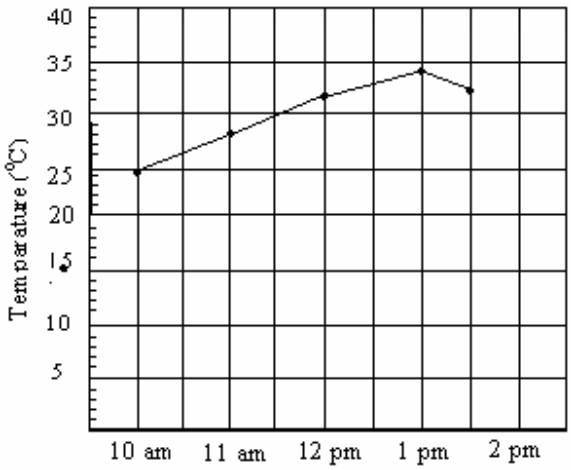
16. **The given bar graph shows the number of residents at 6 places. Study the graph and answer the following question.**



How many residents were residing at Noida?

A. 4000 **B.** 3500 **C.** 5000 **D.** 6000

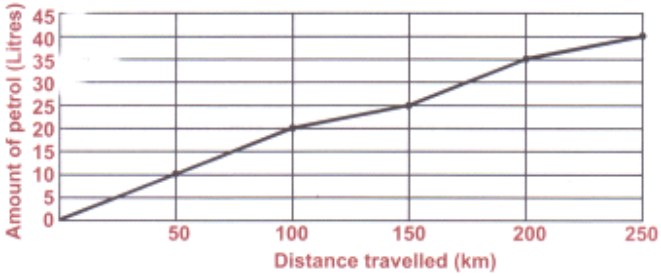
17. **The given graph shows the temperature taken on a certain day. Study the graph and answer the following question.**



The increase in temperature is greatest from _____.

A. 10 am to 11 am **B.** 11 am to 12 pm **C.** 12 pm to 1 pm **D.** 1pm to 2pm

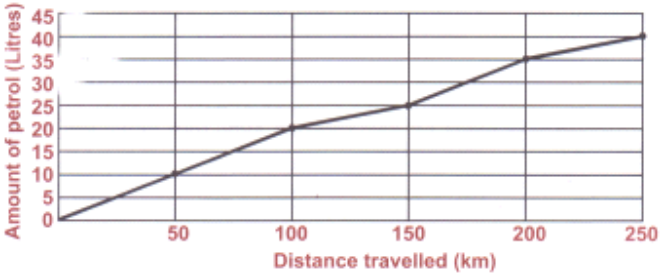
18. **The line graph shows the amount of petrol Mohit used and the distance his car travelled. Study the graph and answer the following questions.**



What was the likely distance travelled when 15 litres of petrol was used ?

A. 50 km **B.** 75 km **C.** 100 km **D.** 150 km

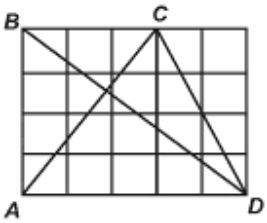
19. **The line graph shows the amount of petrol Mohit used and the distance his car travelled. Study the graph and answer the following questions.**



How much more petrol was used for 200 km than 100 km travelled?

A. 15 litres **B.** 20 litres **C.** 10 litres **D.** 25 litres

20. **What is the relation between the areas of the two triangles D ABD & D ACD in the adjoining figure?**



[Area of 1□ = 1 square unit]

A. Area of DABD > Area of DACD **B.** Area of DABD <Area of DACD

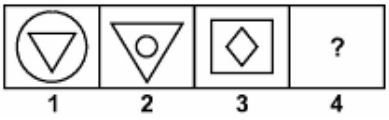
C. Area of DABD = Area of DACD **D.** None of these

21. **Study the table below. In which column will the number 55 appear ?**

V	W	X	Y	Z
1	2	3	4	5
	8	7	6	
9	10	11	12	13
⋮	16	15	14	⋮

A. W **B.** X **C.** Y **D.** Z

22. There is a certain relationship between figures 1 and 2. Identify the relationship and establish the similar relationship between figures 3 & 4 by selecting a figure from the options.



A.  **B.**  **C.**  **D.** 

23. Arrange the given words in descending order according to their values.

1. Trillion 2. Thousand 3. Billion 4. Hundred 5. Million

A. 1,3,4, 2, 5 **B.** 4, 2, 5, 3, 1 **C.** 1,4, 3,2, 5 **D.** 1, 3, 5,2,4

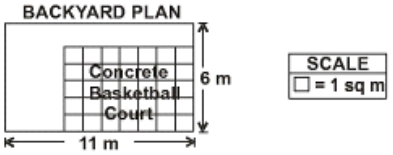
24. Which of the following is the best estimate for 3095 × 84?

A. 3100 × 90 **B.** 3100 × 80 **C.** 3000 × 90 **D.** 3000 × 80

25. Deepak made the smallest possible cube by using rectangular blocks each measuring 6 cm by 4 cm by 3 cm. How many such blocks did he use to make the cube ?

A. 12 **B.** 20 **C.** 24 **D.** 72

26. Rohit's family is planning to build a concrete basketball court in their backyard.



How many square metres will be left in the backyard for grass?

A. 60 square metres **B.** 35 square metres **C.** 31 square metres **D.** 24 square metres

27. What number gives 234 when you multiply it by 45 and then divide by 20?

A. 104 **B.** 106 **C.** 108 **D.** 110

28. What is the missing fraction?

$\frac{3}{4} - \square = \frac{3}{8}$

A. 3/8 **B.** 5/8 **C.** 6/8 **D.** 7/8A

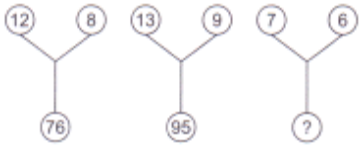
29. Which of the following options will complete the pattern in Fig. (X)?



Fig. (X)

A.  **B.**  **C.**  **D.** 

30. Find the missing number, if same rule is followed in all the three figures.



A. 12 **B.** 29 **C.** 18 **D.** 32

31. **How many triangles are there in the given figure?**



A. 16 **B.** 22 **C.** 24 **D.** 21

32. **Mrs. Sarah bakes 224 cheese cakes in a week. How many cheese cakes can she bake in 60 days?**
A. 3840 **B.** 2240 **C.** 1680 **D.** 1920

33. **A watermelon is 10 times as heavy as two apples of equal mass. If the mass of each apple is 214 g, find the mass of 3 such watermelons.**
A. 12840 g **B.** 6420 g **C.** 2140 g **D.** 4280 g

34. **The charges for hiring a boat are shown below.**

For the first hour	Rs.15
For every additional hour or part there of	Rs.10

Mr. Paul hired a boat from 9.00 a.m. to 2.30 p.m. How much did he pay?
A. Rs. 30 **B.** Rs. 45 **C.** Rs. 65 **D.** Rs. 70

35. **How many figures show right angles made by them?**



A. 2 **B.** 1 **C.** 3 **D.** 0

36. **Mohan saves Rs. 25 per day and his father saves Rs. 50 per day. If both of them save their money for 15 days, what is the difference in their savings ?**
A. Rs. 375 **B.** Rs. 750 **C.** Rs. 1125 **D.** Rs. 1500

37. **My father got 3.7 litres of petrol filled in his car. The price of petrol per litre is 21. How much money did my father pay at the petrol pump?**
A. 77.70 **B.** 67.60 **C.** 65.50 **D.** 79.40

38. **Select one figure from the given alternatives, which fits exactly into Fig. (X), to form a square.**


Fig. (X)

A.  **B.**  **C.**  **D.** 

39. **Mohit read ¼ of a book. If he read further 60 pages, he would have read ⅔ of the book. How many pages were there in the book?**
A. 12 **B.** 36 **C.** 96 **D.** 144

40. **If PAINT is coded as 74128 and EXCEL is coded as 93596, then how would you encode ACCEPT?**
A. 455978 **B.** 547978 **C.** 554978 **D.** 735961