MINDATHON MATHEMATICS OLYMPIAD (MMO) **CLASS-V**

SAMPLE PAPER (2024)

Time: 1 hour

Max Marks: 40

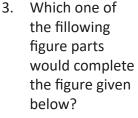
General Instructions:

- There are a total of 35 guestions in this test.
- Read each question carefully and answer all of them.
- All the answers must be correctly marked in the OMR sheet provided to you.
- Questions (1-30) carry one mark. Questions in the Mindathon Challenger's Zone (31-35) are worth 2 marks each.

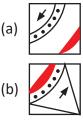
SECTION A Logical Quest

- 1. How many different posible combinations of one colour pencil and one cap can be formed from 5 different coloured pencils and 6 different caps?

 - (a) 22
 - (b) 25
 - (c) 36
 - (d) 30
- 2. Rehan's final exam are starting from two days, before 3rd Wednesday of the August month in the year 2024.
 - Which date is it? (a) 19 August
 - (b) 20 August
 - (c) 23 August
 - (d) 12 August











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17

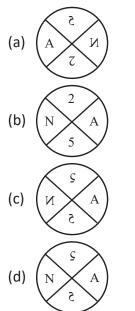
16 20 21 22 23 24

15

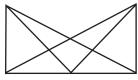
13 14

25 26 27 28 29 30 31

4. Find the mirror image of the given figure.



- 5. There is a group of 5 boys. Rahul is second in height, Amit is taller than Abhay and shorter than Rahul. Rakesh is the tallest. Prakash is shorter than Abhay. Now, who is shorter than Amit but taller than Prakash?
 - (a) Rahul
 - (b) Rakesh
 - (c) Abhay
 - (d) Both Rahul and Abhay
- 6. How many triangles are there in the given figure?



- (a) 12
- (b) 17
- (c) 18
- (d) 19

- Pratima ranks 7th from the top and 26th from the bottom in a class. How many students are there in the class?
 - (a) 33

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- (b) 31 (c) 35
- (C) 35
- (d) 32

8. If 'Sugar' is called 'Book', 'Book' is called 'Salt' and 'Salt' called 'Sweet' then what do we read?

- (a) Sugar
- (b) Sweet
- (c) Book
- (d) Salt
- 9. Choose the correct option to complete the series.

12 V II U 9 T 6 S_____

- (a) 4
- (b) Q
- (c) 5
- (d) 2
- 10. Five girls are sitting in class for a group discussion, facing North. Preeti is to the left of Rekha and to the right of Shobha. Mansi is to the right of Rekha. Roma is between Rekha and Mansi. Who is second from the left?
 - (a) Preeti
 - (b) Rekha
 - (c) Shobha
 - (d) Mansi

[HINT: Arrangement is- Shobha, Preeti, Rekha, Roma, Mansi]



Reasoning and Aptitude 15. If 67.85 x 2.9 = 196.765 than what is 11. Round off the sum of 2687 and 4289 to nearest thousand? 678.5 x 29? (a) 7,000 (a) 1967.65 (b) 6,000 (b) 196.765 (c) 6,900 (c) 1.96765 (d) 19676.5 (d) 6,976 12. If $\forall \forall \forall = \mathbf{0} + \mathbf{0}$ and $\mathbf{0} - \mathbf{1} = 2$ then 16. If = 297.56 find the value of \mathbf{V} , \mathbf{G} . = 165.32 (a) 4,6 (b) 6, 4 Then find the value of and (c) 3, 4 (d) 6,8 = 124.56 (a) 13. What is the sum of the shaded part? = 173 = ? = 231.44 (b) = 66.12 41 40 (a) = 156.44 (c) 31 40 (b) = 141.12 $\frac{35}{40}$ (c) = 66.12 (d) (d) $\frac{92}{120}$ = 231.44 17. Tank A contains 6 times as much 14. If $\frac{1}{5}$ of the whole = 30 mangoes then water as Tank B. How much water must Rohit transfer from Tank A to the whole means Tank B so that each Tank contains 70 (a) 600 mangoes liters of water? (b) 150 mangoes (a) 50 L (c) 300 mangoes (b) 60 L (d) 450 mangoes (c) 75 L

SECTION B

(d) 120 L

18. A bucket is $\frac{3}{7}$ th filled with water and

20 liters of water is needed to fill the bucket to its brim. What is the capacity of the bucket?

R

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- (a) 45 L
- (b) 20 L
- (c) 65 L
- (d) 35 L

- 20. How many rectangles can be drawn with 28 cm as perimeter given that the length of sides are positive integers.
 - (a) 5
 - (b) 6
 - (c) 7
 - (d) 8

19. Which square must be shadded so that the figure has a line of symmetry?

- (a) P
- (b) Q
- (c) R
- (d) S

SECTION C Mathematics in Action

Q

S

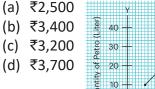
- 21. Preeti has a rectangular floor of length 8m and breadth 6m. How many square tiles of side 2m can fit in it?
 - (a) 10
 - (b) 12
 - (c) 14
 - (d) 16

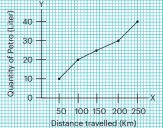
20 m В 22. Jasmine A has a 2m 14m broad path, 18 m House running around her С D house, which

is 16m \times 14m, as shown in the figure.

Find the area of the path.

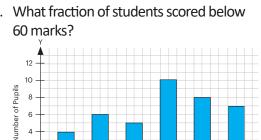
- (a) $162m^2$
- (b) 224m²
- (c) 126m²
- (d) 136m²
- 23. If 1 litre of petrolf costs ₹85, then how much money did Dinesh spent in covering 250 km?

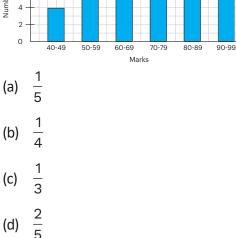






- 24. Manish spent two-fifth th of his salary. 28. What fraction of students scored below If his salary is ₹40,000 then find how much is left with him?
 - (a) ₹24,000
 - (b) ₹16,000
 - (c) ₹22,000
 - (d) ₹18,000
- 25. Arvind wants to make 25 fruit baskets, in which he wants a total of 195 apples, 160 oranges, 45 pamegranate to be packed equally. How many fruits are packed in each basket?
 - (a) 12
 - (b) 15
 - (c) 16
 - (d) 19
- 26. The population of a Town A is 24,75,350 and that of Town B is 2,485,350. Which Town has larger population?
 - (a) Town A
 - (b) Town B
 - (c) Both have equal
 - (d) Can't be compared
- 27. Mohit stands at a point facing towards North. If he turns by an angle of 270° clockwise, which direction will he face?
 - (a) East
 - (b) West
 - (c) North
 - (d) Wouth

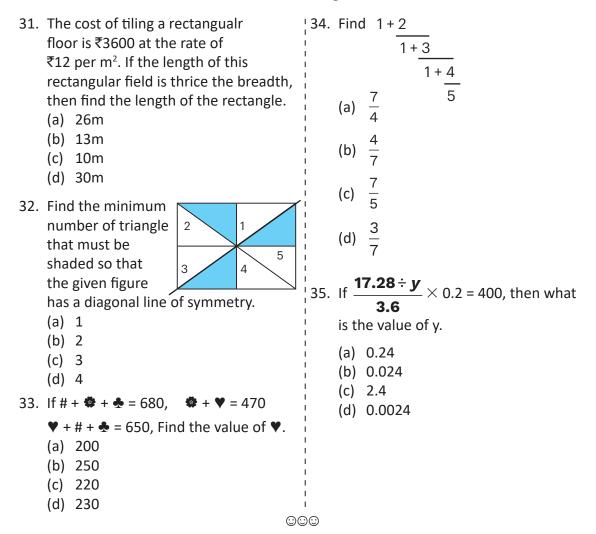




- 29. Tanu had 12 kg 150 gm of rice. She consumed $\frac{1}{3}$ rd of it in a month. How
 - much is left with her?
 - (a) 7.9 kg
 - (b) 4.05 kg
 - (c) 8.10 kg
 - (d) 7.5 kg
- 30. If the cost of 14.5 liters of oil is1194.80, find the cost of 1 litre of oil.
 - (a) 79.5
 - (b) 78.2
 - (c) 80
 - (d) 82.4



SECTION D Mindathon Challenger's Zone



ANSWERS

1. D	2. A	3. D	4. D	5. C	6. B	7. D	8. D	9. D	10. A
11. A	12. A	13. B	14. B	15. D	16. B	17. A	18. D	19. B	20. B
21. B	22. D	23. B	24. A	25. C	26. B	27. B	28. B	29. C	30. D
31. D	32. C	33. C	34. A	35. D					



SIDE-1



Mindathon Olympiad Foundation Filling of all columns completely & accurately is compulsory 1. STUDENT NAME (IN ENGLISH CAPITAL LETTERS ONLY) IMPORTANT: PLEASE FILL IN SCHOOL CODE, CLASS & Registration NO. CORRECTLY FOR COMPUTATION OF RESULT. PERSONAL DETAILS MARK YOUR ANSWERS 2. SCHOOL CODE 3. CLASS B 1 A 26 A В \bigcirc D 2 (A) **B** C 0 0 1 2 3 4 5 B (A) 27 123456789 12345678 3 (A) A C D 28 В 4 A B D 29 (B) 5 (A) 6 30 A В \odot D 6 В D 8 8 31 (A) (9) 9 **B** 7 A 32 A B C D 4. STUDENT REGISTRATION NUMBER 8 В C D Registration No. is the number found on your Admit Card. This 33 B is the same no. that was generated when you registered. N (Write your Registration no. in the boxes and 9 A) 0 34 A B C D darken the circles) P C 10 A в D 0 (A) (B) **(**) 35 R A **A**) 11 S THIS COLUMN IS FOR T **CLASSES 6 & ABOVE** 12 A В D U Ň 36 (A) **B** C 13 (A) (B)) X 37 (A) (B) Ŏ 14 A B 2 Ż 38 A В C D 15 (A) **B** (9) (9) (B) 39 В C D 16 A M 40 A B C D B 5. GENDER 17 A Ň ISE BLUE / BLACK BALL PONT PSN 0 **(A)** 41 18 **A** B D MALE (P) (Q) 42 A В C D FEMALE (B) A 19 **USE 2B PENCIL** (B) 43 20 A в D Я C D 44 В A 21 W (B) 45 22 (A) **B** C X Ī 46 A **B** (\mathbf{c}) 23 A (Z) 47 (B) 24 A B 48 B C D B 25 (A) 49 A B 50 A В \bigcirc D

ANSWER SHEET

Signature of the Student & Date of Examination

Signature of the Invigilator & Date of Examination