

MINDATHON MATHEMATICS OLYMPIAD (MMO)

CLASS- III

SAMPLE PAPER (2024)

Time: 1 hour

Max Marks: 40

General Instructions:

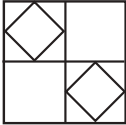
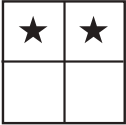
- There are a total of 35 questions in this test.
- Read each question carefully and answer all of them.
- All the answers must be correctly marked in the OMR sheet provided to you.
- Questions (1-30) carry one mark. Questions in the Mindathon Challenger's Zone (31-35) are worth 2 marks each.

SECTION A

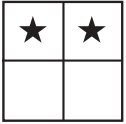
Logical Quest

1. In a class, rank of Kabir is 10th from the left and rank of Raju is 6th from the right. If 6 students are sitting in between them. What is the number of students in the class?
- (a) 6
(b) 22
(c) 12
(d) 10

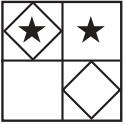
2. Given below are some parts of a figure. Merge them and identify the whole figure.


+

= ?

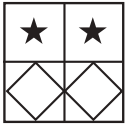
(a)




(b)



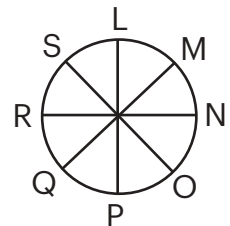
(c)



(d)



3. There are eight friends sitting on a round table, facing towards the centre. If L and O interchange their seats, then who is at second place to the left of R?
- (a) L
(b) P
(c) O
(d) S



4. Pinki sent a code word to her friend 'EIGHT' as 'FJHIU'. Then what will be the code for 'FIVE'?
- (a) EHUG
(b) GHSE
(c) GJWF
(d) EJUG

5. Find the mirror image of the following with the vertical line of symmetry.

SITP

- (a) TISP
(b) PSIT
(c) ZITP
(d) PTIZ
6. If today is Monday then after 61 days it will be?
(a) Monday
(b) Sunday
(c) Thursday
(d) Saturday
7. Select the missing number in the given series: 1, 1, 2, 6, 24, ?
(a) 96
(b) 100
(c) 120
(d) 48
8. Kareena is standing in a row of 9 people at 4th place from left side.



If another person comes and stand at 10th position and the first person leaves, then Kareena will be at what position from the right side?

- (a) 3rd position
(b) 7th position
(c) 4th position
(d) 6th position
9. If 'light' is called 'dark', 'dark' is called 'green', 'green' is called 'blue', 'blue' is called 'red', 'red' is called 'white' and 'white' is called 'yellow' then what is the colour of blood?
(a) Blue
(b) Yellow
(c) White
(d) Red
10. Find the missing number in the series given below:

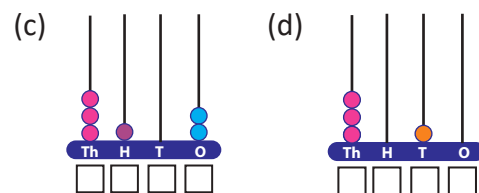
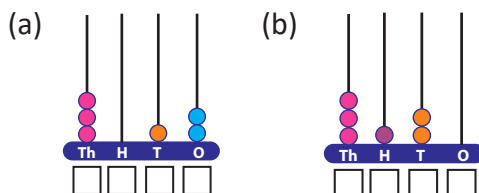


- (a) V
(b) U
(c) R
(d) T

SECTION B

Reasoning and Aptitude

11. Which of the following abacus shows two more than three thousand ten?



12. If $\star = 1000$, $\square = 200$, $\square = 10$ then find the value of

$$\star + \star + \square + \square + \square + \square + \square$$

- (a) 2840
(b) 2602
(c) 2620
(d) 2260

13. Find the numbers which will replace \star and \spadesuit in the given problem.

$$\begin{array}{r} 4 \quad 2 \quad 8 \quad \star \\ + \quad 1 \quad \spadesuit \quad 4 \quad 2 \\ \hline 5 \quad 6 \quad 2 \quad 7 \end{array}$$

- (a) $\star = 5$, $\spadesuit = 4$
(b) $\star = 9$, $\spadesuit = 8$
(c) $\star = 5$, $\spadesuit = 3$
(d) $\star = 3$, $\spadesuit = 5$

14. If 25 is multiplied by 3, then we get a successor of _____.

- (a) 28
(b) 75
(c) 74
(d) 76

15. In the word 'MATHEMATICS', what fraction of the alphabets is vowels?

- (a) $\frac{3}{11}$
(b) $\frac{4}{11}$
(c) $\frac{5}{11}$
(d) $\frac{7}{11}$

16. The temperature in Rome on a certain day was 28°C . If the temperature of Rome is 17°C below that of Dubai then what was temperature in Dubai that day?

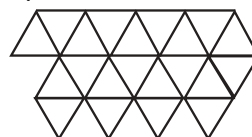
- (a) 42°C
(b) 11°C
(c) 40°C
(d) 45°C

17. How many cubes of side 1 cm each should be joined side by side to get a cuboid of length 5 cm, breadth 1 cm and height 1 cm?



- (a) 4
(b) 5
(c) 6
(d) 3

18. Which of the following shapes will fit into the pattern?



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

19. In a pictograph if represents 40 cars sold then

represents _____ cars sold.

- (a) 40 (b) 80 (c) 100 (d) 120

20. What is the total cost of the following items?



3 Toy Cars
(₹700 each)



2 Books
(₹500 each)



5 Pens
(₹40 each)

- (a) ₹2240
(b) ₹1240
(c) ₹2200
(d) ₹3300

SECTION C

Mathematics in Action

21. Renu wanted to find the smallest 4-digit number using the digits 2, 7, 0, 5, only once. Which digit should she use in hundred's place:

- (a) 2
(b) 7
(c) 0
(d) 5

22. Sohan went to a toy shop and bought the costliest toy. Which toy you think he must have bought?



₹1280+320



₹1820+410



₹1079+815



₹417+1343

23. If $27 \div \star = \text{flower}$ and ' \star ' is the predecessor of 10 then what is the value of flower ?

- (a) 2
(b) 3
(c) 4
(d) 5

24. Cost an apple and 4 bananas is ₹30. If cost of the apple is twice the cost of one banana, then find the cost of a banana.



- (a) ₹15
(b) ₹2
(c) ₹5
(d) ₹10

25. Rohan has 15 toffees. He gave two-fifteenth of total toffees to Sonia, four-fifteenth of total toffees to Preeti and the rest he kept for himself. What fraction of toffees did he keep?

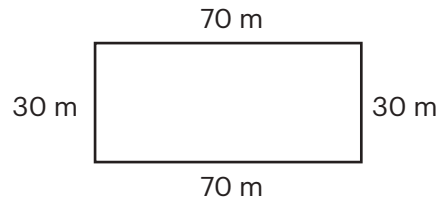
- (a) $\frac{6}{15}$
(b) $\frac{9}{15}$
(c) $\frac{15}{9}$
(d) $\frac{10}{15}$

26. Meera walks for 50 minutes everyday. If she starts at 6:30 am in the morning then at what time she returns?

- (a) 7:30 am
(b) 7:10 am

- (c) 7:20 am
(d) 6:50 am
27. Rohit has ₹430 in ₹50 notes and ₹20 notes. If he has seven notes of ₹50 then how many ₹20 notes he has?
(a) 7
(b) 3
(c) 5
(d) 4
28. Cost of a teddy bear is ₹4800. Cost of a toy car is half the cost of the teddy bear. And cost of a barbie is half the cost of the toy car. How much Arun pays for buying all the three items?
(a) ₹6000
(b) ₹9600
(c) ₹8400
(d) ₹7200

29. Reena takes 3 rounds of her park. How much distance she covers?






- (a) 500 m
(b) 200 m
(c) 400 m
(d) 600 m
30. If the paper was of 100 marks per subject, then how many more marks are needed is S.St. to get full marks?
(a) 30
(b) 20
(c) 10
(d) 40

SECTION D

Mindathon Challenger's Zone

31. If cost of 5 books and 2 bags is ₹3000 and the cost of 2 bags and 2 books is ₹2400, then find the cost of 1 bag.



- (a) ₹600
(b) ₹2000
(c) ₹200
(d) ₹1000
32. If  = $\star\star$ and $\star\star\star\star$  = 1 whole then express ($\star\star$ ) as a fraction of a whole.
(a) $\frac{4}{6}$

- (b) $\frac{5}{8}$
(c) $\frac{5}{6}$
(d) $\frac{4}{8}$







33. Find the value of $\star + \clubsuit$.

$$\frac{7}{12} + \star \longrightarrow \frac{11}{12} - \clubsuit \longrightarrow \frac{9}{12}$$

- (a) $\frac{7}{12}$
(b) $\frac{4}{12}$

(c) $\frac{6}{12}$

(d) $\frac{2}{12}$

34. If  +  = ₹500,
 +  = ₹500 and
 = ₹390 the cost of
 one  = _____.
 (a) ₹70

- (b) ₹80
 (c) ₹120
 (d) ₹130

35. The length of a rectangle is double the breadth of it, find the breadth if the perimeter of that rectangle is 21 cm?
 (a) 7 cm
 (b) 3.5 cm
 (c) 10 cm
 (d) 5.5 cm



ANSWER KEY

1) b	2) b	3) c	4) c	5) d	6) d	7) c	8) b	9) c	10) d
11) a	12) c	13) c	14) c	15) b	16) d	17) b	18) c	19) c	20) d
21) d	22) b	23) b	24) c	25) b	26) c	27) d	28) c	29) d	30) a
31) d	32) d	33) c	34) a	35) b					



[illegible]

PERSONAL DETAILS

3. CLASS

A	A	0	0	0	0	0	0
B	B	1	1	1	1	1	1
C	C	2	2	2	2	2	2
D	D	3	3	3	3	3	3
E	E	4	4	4	4	4	4
F	F	5	5	5	5	5	5
G	G	6	6	6	6	6	6
H	H	7	7	7	7	7	7
I	I	8	8	8	8	8	8
J	J	9	9	9	9	9	9

(Write your Registration no. in the boxes and darken the circles)

A	A	0	0	0	0
B	B	1	1	1	1
C	C	2	2	2	2
D	D	3	3	3	3
E	E	4	4	4	4
F	F	5	5	5	5
G	G	6	6	6	6
H	H	7	7	7	7
I	I	8	8	8	8
J	J	9	9	9	9

FEMALE 



OR



MARK YOUR ANSWERS

1	A	B	C	D
2	A	B	C	D
3	A	B	C	D
4	A	B	C	D
5	A	B	C	D
6	A	B	C	D
7	A	B	C	D
8	A	B	C	D
9	A	B	C	D
10	A	B	C	D
11	A	B	C	D
12	A	B	C	D
13	A	B	C	D
14	A	B	C	D
15	A	B	C	D
16	A	B	C	D
17	A	B	C	D
18	A	B	C	D
19	A	B	C	D
20	A	B	C	D
21	A	B	C	D
22	A	B	C	D
23	A	B	C	D
24	A	B	C	D
25	A	B	C	D
26	A	B	C	D
27	A	B	C	D
28	A	B	C	D
29	A	B	C	D
30	A	B	C	D
31	A	B	C	D
32	A	B	C	D
33	A	B	C	D
34	A	B	C	D
35	A	B	C	D
THIS COLUMN IS FOR CLASSES 5 & ABOVE				
36	A	B	C	D
37	A	B	C	D
38	A	B	C	D
39	A	B	C	D
40	A	B	C	D
41	A	B	C	D
42	A	B	C	D
43	A	B	C	D
44	A	B	C	D
45	A	B	C	D
46	A	B	C	D
47	A	B	C	D
48	A	B	C	D
49	A	B	C	D
50	A	B	C	D

Signature of the Invigilator & Date of Examination