MINDATHON MATHEMATICS OLYMPIAD (MMO)
CLASS- II

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. If the day before yesterday was 30th May, then what is the date tomorrow?

    (a) 2nd June
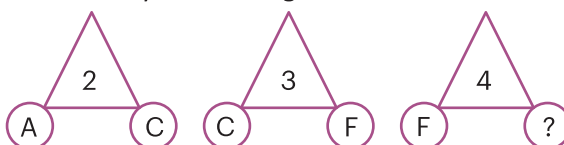   (b) 1st June
    (c) 3rd June
    (d) 31st May

2. If in a certain code, BASIC is written as DCUKE then how is HELP written?

    (a) NRGJ
    (b) JGNR
    (c) JGMS
    (d) IGSM

3. Reshan is standing in a row of ten people. He is 4th position from the left. What is her position from the right?

    (a) 5   (b) 6
    (c) 7   (d) 4

4. Identify the missing letter.

    (a) G   (b) J
    (c) H   (d) I

5. If 'Balls' is called 'cap', 'cap' is called 'pencil', 'pencil' is called 'Eraser' and 'Eraser' is called 'Bag', then Mohit will wear _____ in sunlight.

    (a) Cap   (b) Eraser
    (c) Pencil   (d) Bag

6. If Roma spins a wheel, which number is most likely to come?

    (a) 1   (b) 7
    (c) 5   (d) 3

7. ↰ ⌒ ↩ ↑ **?** ⌒ ↩ ↑

(a) ⥮   (b) ↪

(c) ⌒↓   (d) ↰

8.

91 | 89 | 87 | **?** | 83

(a) 85　　　　(b) 87
(c) 81　　　　(d) 79

9. If [◇◇◇◇] ⚖ [◎◎◎◎ / ◎◎◎◎]

Then ◇◇◇ = ?

(a) ◎◎◎◎　　(b) ◎◎◎◎◎◎
(c) ◎◎◎　　　(d) ◎◎◎◎◎

10. Shekhar had 12 apples. How many packets he can make, having 4 apples in each packet?
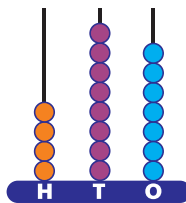
(a) 4　　　　　(b) 2
(c) 3　　　　　(d) 6

SECTION B
Reasoning and Aptitude

11. Use the digits 2,7,5 only once, to form the greatest number

(a) 275　　　　(b) 725
(c) 527　　　　(d) 752

12. If you have to subtract 20 from 487, then from where will you remove 2 beads?

(a) Hundreds column
(b) Tens column
(c) Ones column
(d) From each column

H   T   O

13. Find the value of ☆ and ♡ in the given problem.

$$\begin{array}{r} 8\ 7\ ☆ \\ -\ 5\ ♡\ 2 \\ \hline 3\ 7\ 7 \end{array}$$

(a) ☆ = 7, ♡ = 7

(b) ☆ = 0, ♡ = 5

(c) ☆ = 9, ♡ = 7

(d) ☆ = 9, ♡ = 0

14. If 3 x 5 = ☆ x 15 then value of ☆ is _____

(a) 1　　　　　(b) 3
(c) 5　　　　　(d) 15

15. Which of the following statement is false?
(a) 5+5+5+5 = 4x5
(b) 5+5+5+5 = 5x4
(c) 4x7 is read as 4 times 7
(d) Value of 3x8 = 8x3

16. If 1 bottle has a capacity of 2L and 6 bottles can fill a bucket then what is the capacity of the bucket?

(a) 6 L　　　　(b) 2L
(c) 8L　　　　(d) 12 L

17. If a movie is of 3 hours and it start at 10:45 pm then, it will over by what time?

(a) 12:45 pm　　(b) 1:45 pm
(c) 1:45 am　　(d) 13:45 pm

100

18. How many five rupee coins can be exchanged for a fifty rupee note?

   (a) 5　　　　　　　(b) 10
   (c) 15　　　　　　(d) 50

19. Identify the number of faces in the prism
   (a) 5　　　　　　　(b) 12
   (c) 11　　　　　　(d) 10

20. How many Sundays are there in the month of July if 1st July is Sunday only?
   (a) 4　　　　　　　(b) 5
   (c) 7　　　　　　(d) 3

SECTION C
Mathematics in Action

21. How many more children like cycling as compared to basketball?

   (a) 5　　　　　　　(b) 6
   (c) 7　　　　　　(d) 8

22. Atul wants to distribute 765 toffees, He has 542 toffees right now. How many more he needs to buy ?

   (a) 231　　　　　　(b) 123
   (c) 323　　　　　　(d) 223

23. In a row there are 20 students standing for school assembly. How many students are there if there are 5 such rows?

   (a) 25　　　　　　(b) 80
   (c) 100　　　　　(d) 120

24. Cost of 1 Pencil box is ₹100. Rohit bought 4 Pencil boxes. He gave a note of ₹500 to the shopkeeper. How much many will he get back?

   (a) ₹100　　　　　(b) ₹200
   (c) ₹300　　　　　(d) ₹400

25. Rahul wants to go to Kashmir which is at a distance of 488 Km from his place. He takes a train for first 352 Km and then next 104 Km by car. The rest he covers by bus. How much distance did he cover by bus?

   (a) 22 Km　　　　　(b) 52 Km
   (c) 32 Km　　　　　(d) 42 Km

26. Rishi and Varun measured their pencils with a scale but did not start from zero. Whose pencil was greater and by how much?
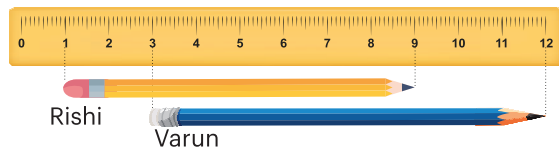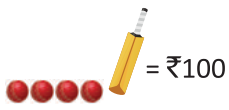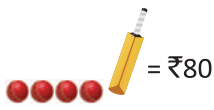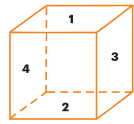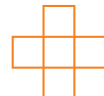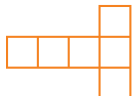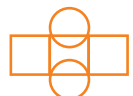

(a)　Varun's Pencil is greater by 3 cm
(b)　Rishi's Pencil is grater by 3 cm
(c)　Varun's pencil is greater by 1 cm
(d)　Rishi's pencil is greater by 1 cm.

27. Sohum leaves for his office at 8:30 am and reaches at 9:45 am, What was the duration of his travel?

(a) 1 Hour
(b) 1 Hour 30 Minute
(c) 1 Hour 15 Minute
(d) 1 Hour 45 Minute

28. At a metro station, the metro comes after every 20 minute. If Sonakshi missed her train which came at 10:50 am, then at what time will she be able to catch her next train?

(a) 11 am   (b) 11:10 am
(c) 11:20 am   (d) 10:70 am

29. Cost of a T-Shirt is ₹300 instead of ₹500, in a sale. How many T-Shirt can be bought from ₹1000 in the sale?

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

30. Cost of 5 eggs is ₹60. If Manit bought 10 then how much did he pay?

(a) ₹100   (b) ₹110
(c) ₹120   (d) ₹70

SECTION D
Mindathon Challenger's Zone

31. If the place value of a number 7 is 7 itself, then 7 lies at which place?

(a) Ones   (b) Tens
(c) Hundreds   (d) Thousands

32. If cost of 4 balls and 1 bat is ₹100 while cost of 2 balls and 1 bat is ₹80, Then what is the cost of 1 ball?

●●●● 🏏 = ₹100   ●●●● 🏏 = ₹80

(a) ₹60   (b) ₹20
(c) ₹15   (d) ₹10

33. Find out the missing signs so that the following statement is true.
88 toffees 🍬 64 toffees = 6 🍬 4

(a) 🍬 = + 🍬 = x   (b) 🍬 = + 🍬 = −

(c) 🍬 = − 🍬 = x   (d) 🍬 = x 🍬 = −

34. Zeenat's watch always shows the time which is 15 minutes ahead of the actual time. She starts her walk 6 pm (actual time). If she walks for 1 hour then what is the time in her watch when she finishes her walk ?

(a) 7:15 pm   (b) 7:00 pm
(c) 6:45 pm   (d) 7:45 pm

35. If you cut open a cubical box, then how will it's faces lie on a plane surface?

(a)   (b)

(c)   (d)

ANSWER KEYS

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

ANSWER SHEET

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

2. SCHOOL CODE

3. CLASS

4. STUDENT REGISTRATION NUMBER

Registration No. is the number found on your Admit Card. This is the same no. that was generated when you registered.

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

5. GENDER

MALE

FEMALE

USE 2B PENCIL

OR

USE BLUE / BLACK BALL POINT PEN

MARK YOUR ANSWERS

No.	A	B	C	D
1	Ⓐ	Ⓑ	Ⓒ	Ⓓ
2	Ⓐ	Ⓑ	Ⓒ	Ⓓ
3	Ⓐ	Ⓑ	Ⓒ	Ⓓ
4	Ⓐ	Ⓑ	Ⓒ	Ⓓ
5	Ⓐ	Ⓑ	Ⓒ	Ⓓ
6	Ⓐ	Ⓑ	Ⓒ	Ⓓ
7	Ⓐ	Ⓑ	Ⓒ	Ⓓ
8	Ⓐ	Ⓑ	Ⓒ	Ⓓ
9	Ⓐ	Ⓑ	Ⓒ	Ⓓ
10	Ⓐ	Ⓑ	Ⓒ	Ⓓ
11	Ⓐ	Ⓑ	Ⓒ	Ⓓ
12	Ⓐ	Ⓑ	Ⓒ	Ⓓ
13	Ⓐ	Ⓑ	Ⓒ	Ⓓ
14	Ⓐ	Ⓑ	Ⓒ	Ⓓ
15	Ⓐ	Ⓑ	Ⓒ	Ⓓ
16	Ⓐ	Ⓑ	Ⓒ	Ⓓ
17	Ⓐ	Ⓑ	Ⓒ	Ⓓ
18	Ⓐ	Ⓑ	Ⓒ	Ⓓ
19	Ⓐ	Ⓑ	Ⓒ	Ⓓ
20	Ⓐ	Ⓑ	Ⓒ	Ⓓ
21	Ⓐ	Ⓑ	Ⓒ	Ⓓ
22	Ⓐ	Ⓑ	Ⓒ	Ⓓ
23	Ⓐ	Ⓑ	Ⓒ	Ⓓ
24	Ⓐ	Ⓑ	Ⓒ	Ⓓ
25	Ⓐ	Ⓑ	Ⓒ	Ⓓ

No.	A	B	C	D
26	Ⓐ	Ⓑ	Ⓒ	Ⓓ
27	Ⓐ	Ⓑ	Ⓒ	Ⓓ
28	Ⓐ	Ⓑ	Ⓒ	Ⓓ
29	Ⓐ	Ⓑ	Ⓒ	Ⓓ
30	Ⓐ	Ⓑ	Ⓒ	Ⓓ
31	Ⓐ	Ⓑ	Ⓒ	Ⓓ
32	Ⓐ	Ⓑ	Ⓒ	Ⓓ
33	Ⓐ	Ⓑ	Ⓒ	Ⓓ
34	Ⓐ	Ⓑ	Ⓒ	Ⓓ
35	Ⓐ	Ⓑ	Ⓒ	Ⓓ

THIS COLUMN IS FOR CLASSES 6 & ABOVE

No.	A	B	C	D
36	Ⓐ	Ⓑ	Ⓒ	Ⓓ
37	Ⓐ	Ⓑ	Ⓒ	Ⓓ
38	Ⓐ	Ⓑ	Ⓒ	Ⓓ
39	Ⓐ	Ⓑ	Ⓒ	Ⓓ
40	Ⓐ	Ⓑ	Ⓒ	Ⓓ
41	Ⓐ	Ⓑ	Ⓒ	Ⓓ
42	Ⓐ	Ⓑ	Ⓒ	Ⓓ
43	Ⓐ	Ⓑ	Ⓒ	Ⓓ
44	Ⓐ	Ⓑ	Ⓒ	Ⓓ
45	Ⓐ	Ⓑ	Ⓒ	Ⓓ
46	Ⓐ	Ⓑ	Ⓒ	Ⓓ
47	Ⓐ	Ⓑ	Ⓒ	Ⓓ
48	Ⓐ	Ⓑ	Ⓒ	Ⓓ
49	Ⓐ	Ⓑ	Ⓒ	Ⓓ
50	Ⓐ	Ⓑ	Ⓒ	Ⓓ

Signature of the Student & Date of Examination

Signature of the Invigilator & Date of Examination