



**Mindathon**

# MMO OLYMPIAD

## WORKBOOK

MINDATHON MATHEMATICS OLYMPIAD

2

By

**Ms. Simarpan Kaur**

*TGT Mathematics, M.Sc. Mathematics*

*B.Ed Gold Medalist*

**Mindathon** Olympiad Foundation

## PREFACE

Mathematics is not just a subject but a way of thinking, exploring, and solving problems that challenge our minds. The Mindathon Mathematics Olympiad epitomizes this intellectual pursuit, providing young mathematicians a platform to showcase their talents and expand their understanding.

Our curriculum aligns with the National Curriculum framework's vision, emphasizing holistic growth through critical thinking, hands-on experience, and the development of mathematical skills. We aim to empower learners to engage meaningfully in their educational journey.

This book is designed to offer a stimulating and enriching experience, strengthening mathematical concepts through diverse exercises and challenges. It aligns with curriculum standards and promotes higher-order thinking and problem-solving skills.

Our primary goal is to make learning mathematics enjoyable and rewarding. To eliminate math phobia, each chapter facilitates a progressive learning journey, starting with foundational concepts and advancing to more complex topics. We help students connect mathematics to their daily experiences and present them with challenges to sharpen their skills.

This book also aims to instill a love for mathematics and build confidence. It is designed for students passionate about math, whether preparing for competitive exams or seeking to deepen their knowledge.

Embark on this mathematical journey with an open mind and a spirit of exploration. The joy of mathematics lies not just in finding the right answers but in the thrill of the quest itself. We wish you all the best in your mathematical endeavors. Happy solving!

### Key features of the book

- Aligned with the National Curriculum Framework.
- Child-oriented, simple, and effective.
- Concept map for each chapter, linking all the subject topics.
- Chapter-wise summary at the beginning of each chapter.
- Multiple choice questions (MCQs) for concept solving, ranging from easy to moderate and difficult levels.
- Focus on reasoning and aptitude.
- Application-based problems.
- Case studies.
- Mindathon's challenger's zone.
- Hints for difficult problems.
- Sample paper for practice.

Edition : New Edition

© All rights reserved.

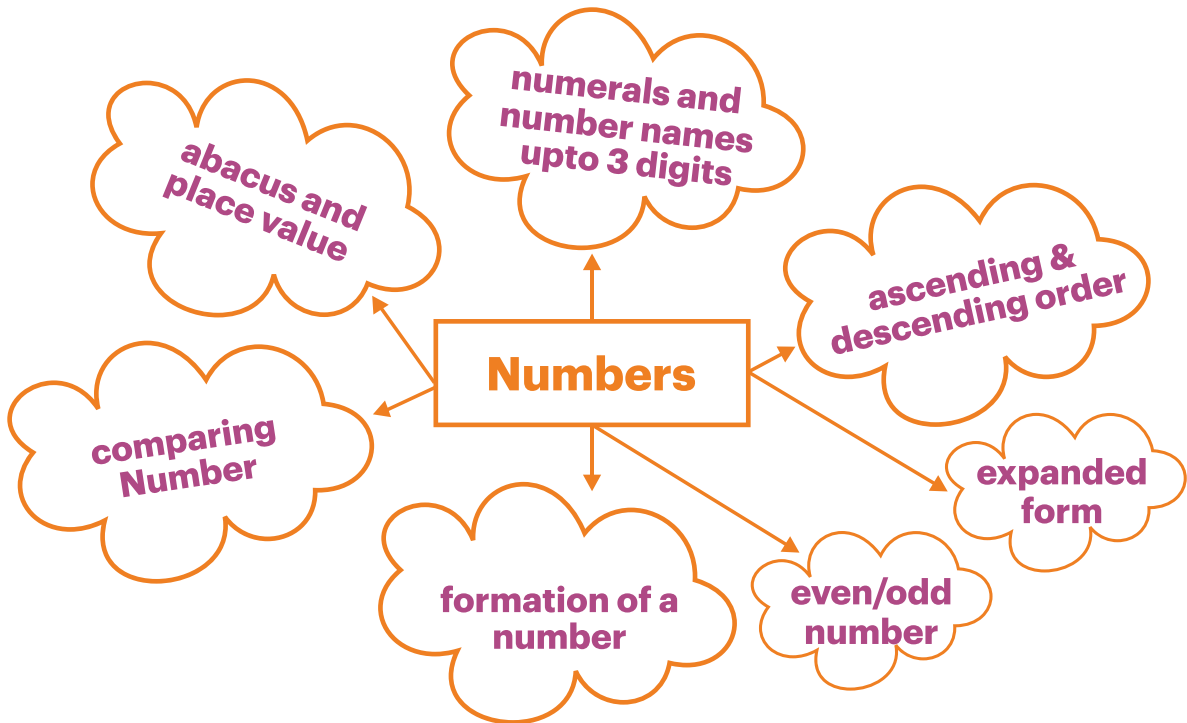
No part of the work may be reproduced, stored in retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, microfilming, recording or otherwise without the prior written permission of the publisher.

This book is meant for educational and learning purposes. The author(s) of the book has/have taken all reasonable care to ensure that the contents of the book do not violate any existing copyright or either intellectual property rights of any person in any manner whatsoever. In the event the author(s) has/have been unable to track any source and if any copyright has been inadvertently infringed. Please notify the publisher in writing for corrective action.

**CLASS 2**  
**OLYMPIAD PRACTICE QUESTIONS**

<b>CONTENT</b>	<b>Page No.</b>
1. Number System	5
2. Addition and Subtraction	13
3. Multiplication	22
4. Measurements	30
5. Time	40
6. Money	49
7. Shapes	59
8. Patterns	68
9. Data Handling	76
10 Logical Reasoning	86
ANSWER KEY	97
SAMPLE PAPER	99





### Summary:

- 1) Smallest 3 digit number = 100  
Largest 3 digit number = 999
- 2) Predecessor is the number which comes before the given number.  
Successor is the number which comes just after the given number.
- 3) Ascending order is when numbers are arranged from smallest to largest number.
- 4) Descending order is when numbers are arranged from largest to smallest number.
- 5) Even number are those which have 0, 2, 4, 6, 8 at it's unit's place.
- 6) Odd number are those which have 1, 3, 5, 7 at it's unit's place.





## Reasoning and Aptitude

1. Which of the following numbers is arranged in a descending order?

(a) 720,435,620,625

(b) 987,978,879,798

(c) 805, 850, 730, 610

(d) 485,584,854,845

1.

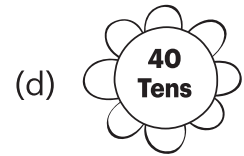
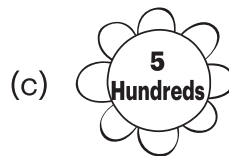
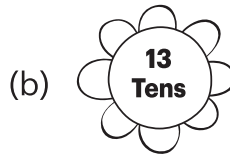
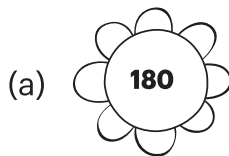
A

B

C

D

2. Which of the following numbers is of the largest value?



2.

A

B

C

D

3. Largest 3 digits even number is

(a) 100

(b) 98

(c) 102

(d) 998

3.

A

B

C

D

4. What is the sum of 7 hundreds and 2 tens?

(a) 720

(b) 270

(c) 702

(d) 207

4.

A

B

C

D

5. The numeral for eight hundred eight is

(a) 808

(b) 880

(c) 888

(d) 088

5.

A

B

C

D



- 6. If you arrange the following number is ascending order, then which number will come at the second place from left side?  
607, 786, 768, 670**

(a) 607      (b) 786      (c) 768      (d) 670

**6.**      (A)      (B)      (C)      (D)

- 7. The expanded form of 528 is**

(a) 5 tens 28 ones      (b) 5 hundreds 28 tens  
(c) 28 ones 5 hundreds      (d) 52 hundreds 8 tens

**7.**      (A)      (B)      (C)      (D)

- 8. What is the place value of 6 in 865?**

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

**8.**      (A)      (B)      (C)      (D)

- 9. The largest odd number between 200 and 250 is**

(a) 250      (b) 249      (c) 251      (d) 201

**9.**      (A)      (B)      (C)      (D)

- 10. 60 tens is \_\_\_\_\_ 6 hundreds. Find the missing word.**

(a) Greater than      (b) Less than      (c) Equal to      (d) None of these

**10.**      (A)      (B)      (C)      (D)

- 11. Find the missing number in the following**

$$463 = 400 + \square \times 10 + 3 \times 1$$

(a) 4      (b) 6      (c) 3      (d) 10

**11.**      (A)      (B)      (C)      (D)



12. Which of the following is the predecessor of 390?

- (a) 390      (b) 391      (c) 381      (d) 389

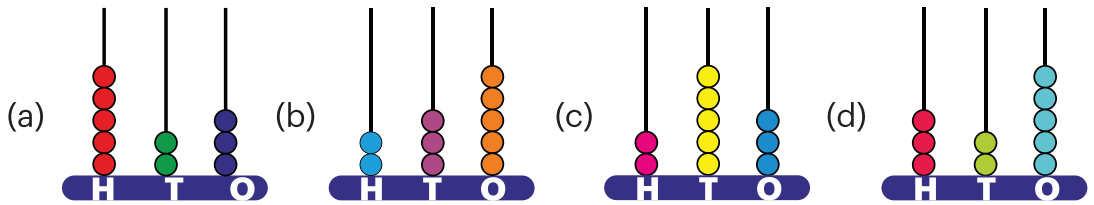
10.      **A**      **B**      **C**      **D**

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

- (a) 275      (b) 725      (c) 527      (d) 752

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

14. Which of the following shows 253?



15. The given ball belongs to which bowl?



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







## Mathematics in Action

16. Use the digits 6,4,0 only once to form the smallest 3 digits number

- (a) 406      (b) 046      (c) 640      (d) 460

16.

(A)

(B)

(C)

(D)

17. In the given cloud, which numbers lie between 280 and 320?

- (a) 281      (b) 368      (c) 200      (d) 271

281 386 321  
271 368 200

17.

(A)

(B)

(C)

(D)

18. Four friends play a game of cards where they were supposed to make a three digit number using the  Who made the smallest, 3 digits number?

- (a) Jyoti made 

8	0	5
---	---	---

      (b) Reena made 

0	5	8
---	---	---
- (c) Garima made 

5	0	8
---	---	---

      (d) Sarita made 

5	8	0
---	---	---

18.

(A)

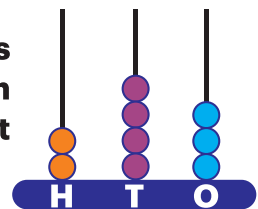
(B)

(C)

(D)

19. Atul had an abacus arrangement as shown, His younger brother came and took away 2 beads from tens column for playing. What will be the number left on the abacus.

- (a) 223      (b) 043      (c) 241      (d) 232



19.

(A)

(B)

(C)

(D)

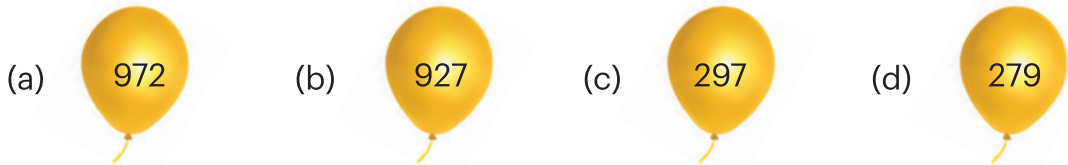


**20.** Karishma said that she has ( 3 hundreds 2 ones) number of toffees. Preeti said that she has (2 hundreds 3 tens) number of toffees. Who has more toffees.

- (a) Karishma (b) Preeti  
(c) Both have equal number of toffees (d) Can't be decided



**21.** Avinash had four balloons out of which one gets lost. If each balloons is numbered then help him find the lost balloons using the hint that the cost balloon has hundred's digit as the smallest even number and ones digit is the largest one- digit number.



**22.** Prem has collected 80 tens 2 hundreds stamps. How many has he collected?

- (a) 280 (b) 802 (c) 820 (d) 208



**23.** Shikha wants to make a greatest 3 digit number, with 6 at hundred's place & 9 at ones's place.

Which digit will come at tens' place?

6 ? 9

- (a) 0 (b) 9 (c) 5 (d) 8



**24. Sushil had ₹497 with him. How many hundreds he has?**

- (a) 497      (b) 40      (c) 4      (d) 90

**24.**

**A**

**B**

**C**

**D**

**25. Sohun wonders how many zeroes are there in ten hundreds?**

- (a) Three      (b) Four      (c) Two      (d) Five

**25.**

**A**

**B**

**C**

**D**



## Mindathon Challenger's Zone

**26. Who am I if my ten's digit is 3, hundred's digit is 6 and one's digit is 4.**

- (a) 364      (b) 634      (c) 643      (d) 436

**26.**

**A**

**B**

**C**

**D**

**27. Which of the following has the smallest value?**

- (a) Seventy eight      (b) 8 more than 70  
(c) 8 tens 2 ones      (4) 4 less than 80

**27.**

**A**

**B**

**C**

**D**



**28. Who am I if I am 1 less than the largest 3 digit number?**

- (a) 998    (b) 999    (c) 101    (d) 990

**28.**

**A**

**B**

**C**

**D**

**29. 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

**29.**

**A**

**B**

**C**

**D**

**30. Ten hundreds = \_\_\_\_ Tens**

- (a) 1    (b) 10    (c) 100    (d) 0

**30.**

**A**

**B**

**C**

**D**

## HINTS

- 3.** Largest 3 digits number = 999. But it is odd. So largest 3 digits number which is even = 998
- 7.** 28 Ones 5 hundreds = 5 hundreds 28 ones = 528
- 16.** If we write 046 then it is a two digit number. So 406 is the smallest three digit number.
- 20.** Karishma's toffees = 302, Preeti's toffees = 203
- 22.** 80 ones =  $80 \times 1 = 80$   
2 hundreds =  $2 \times 100 = 200$  Hence the number is  $200 + 80 = 280$
- 27.** Seventy eight = 78, 8 more than 70 = 78, 8 tens 2 ones = 82,  
4 less than 80 = 76
- 30.** Ten hundred = 100Tens      (number of zeroes on both sides  
(3 zeroes)      (3 zeroes)      should be same)

