

MMO OLYMPIAD workbook

MINDATHON MATHEMATICS OLYMPIAD



By

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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.

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CLASS 1 OLYMPIAD PRACTICE QUESTIONS

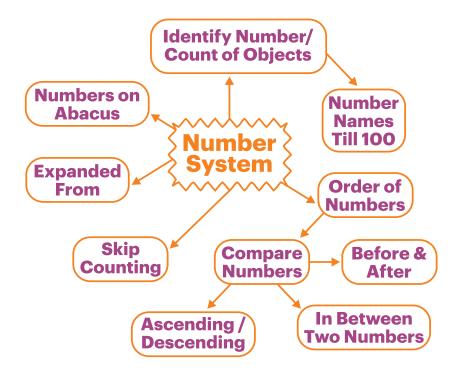
CONTENT		Page No.
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NOTES				





Mind Map:



Summary/ Examples:

- (1)
- (2) 89 can be written as eighty nine.
 - 89 = 8 Tens 9 Ones = 80+9
- (3) 42 comes after 41 OR 41 comes before 42
- (4) 42 comes between 41 and 43
- (5) 28, 47, 35, 87 in ascending order is 28, 35, 47, 87. It's descending order is 87, 47, 35, 28



- (6) Ascending order is smallest to biggest number while descending order is biggest to smallest number
- (7) Example of skip counting by 3= 3,6,9,12,15skip counting by 4= 4,8,12,16,20
- (8) 53 on abacus is



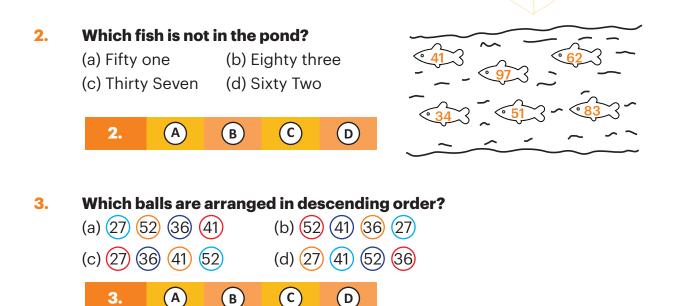
as 53= 5 Tens 3 Ones



1. Which number will come in between the two kites?

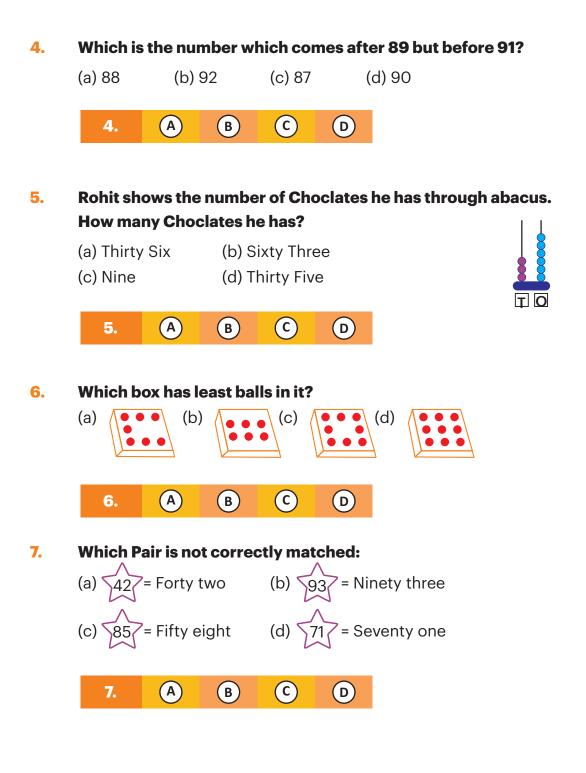
- (a) Sixty Four
- (c) Sixty Six
- (b) Sixty Five (d) Sixty Seven



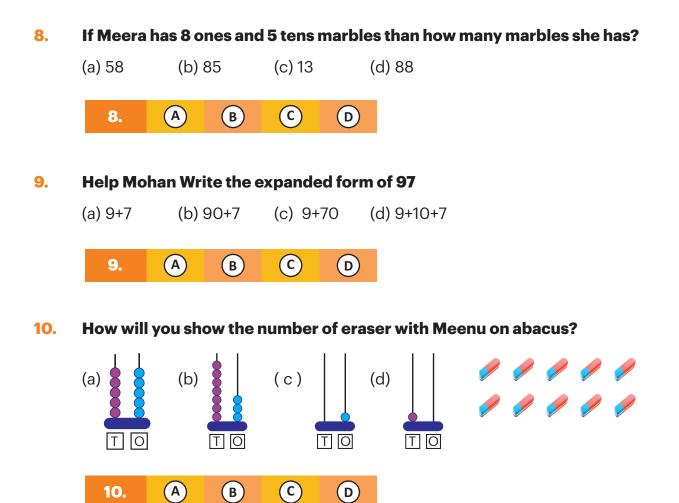


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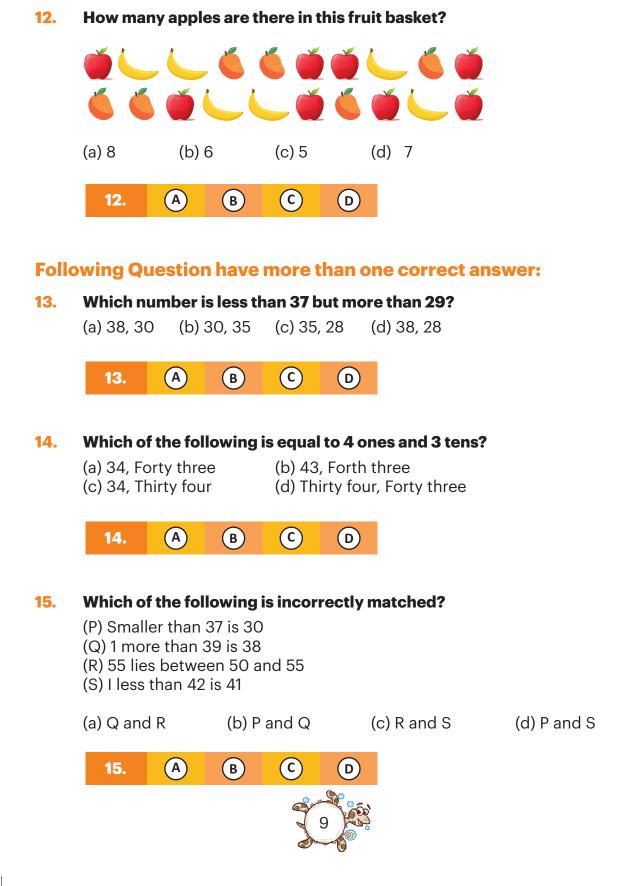




- **11.** Rohit has 3 tens 5 ones number. of toffees and Renu has 5 ones 8 tens number of toffees while Komal has 8 tens 3 ones number of toffees. Who has the maximum numbers of toffees?
 - (a) Rohit (b) Komal
 - (c) Renu (d) All have equal number of toffees









16. Tripti has a collection of stamps while Raman has a collection of coin. Which of following statement is true?

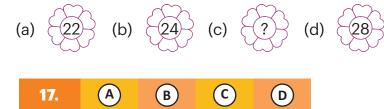


(a) Stamps are more than coins

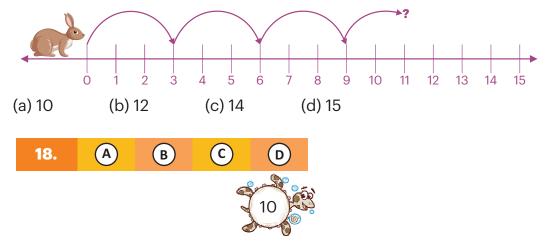
- (b) Coin are more than Stamps
- (c) Number of coins and stamps are equal
- (d) Number of coins is 1 more than the number of stamps

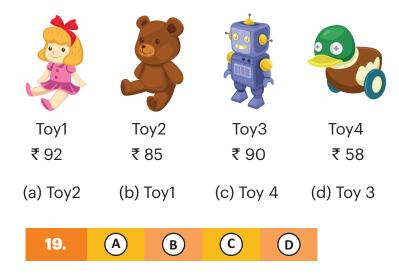


17. what comes in the number pattern below?



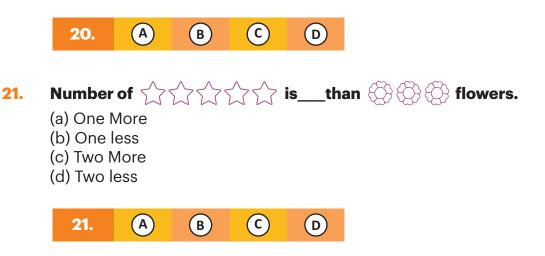
18. A rabbit jumps on a line marked from 0 to 15. Where will he land next?





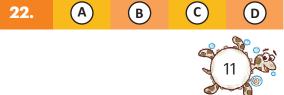
20. If a boy has 7 tens & 5 ones number of marbles, then how many marbles he has?

(a) 12 (b) 57 (c) 75 (d) 705



22. I am a number which is not more than 81 but not less than 80 then who am I , if I am not 81?

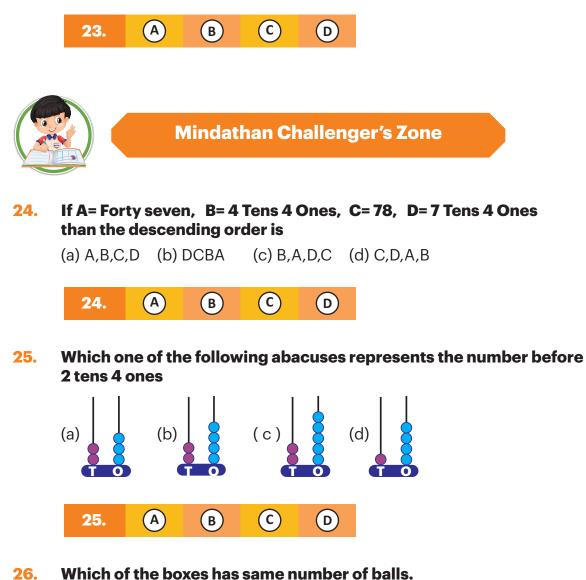


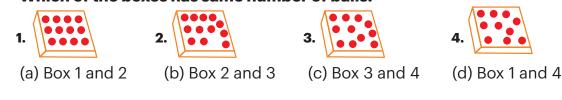


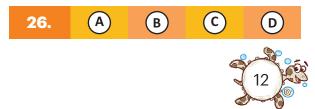
19. Which of the following toys is most costly?

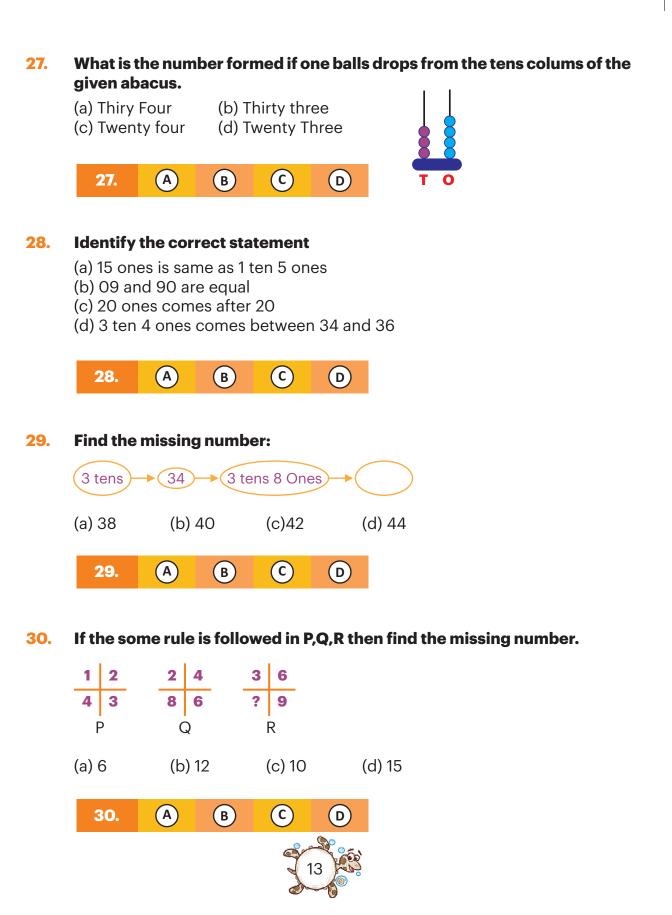
23. Which is the following is greatest?

(a) 23 Ones (b) 3 Tens 2 Ones (c) 2 Tens 2 Ones (d) Thirty three









HINTS

11.	Rohit has 35 toffees Renu has 85 toffees Komal has 83 toffees	26 .	Box 1 has 12 balls Box 2 has 12 balls Box 3 has 11 balls Box 4 has 10 balls
22.	80 and 81 are numbers. Which are not more than 81 and not less than 80.	29 .	30 34 38 42 +4 +4 +4
24.	A = 47 B = 44 C = 78 B = 74	30.	$\frac{1 2}{4 3}^{+1} \frac{2 4}{8 6}^{+2} \frac{3 6}{2 9}^{+3}$
25.	Number before 24 = 23		

