# CREST Olympiads

# 2

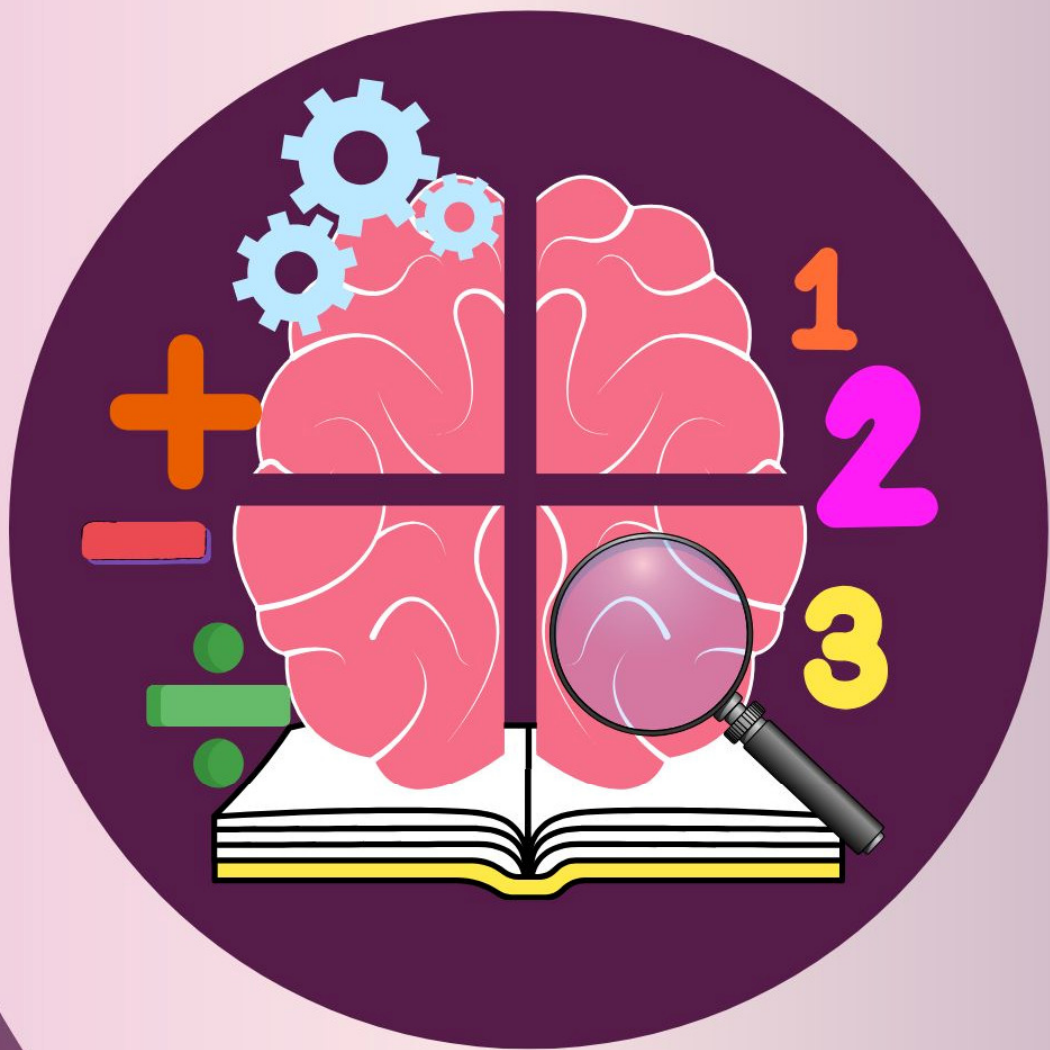# MENTAL MATHS WORKBOOK

## For the preparation of National & International Competitions



- Chapter-wise practice exercises
- Previous year paper

## CREST Mental Maths Olympiad (CMMO)

# Mental Maths Competitions

## Preparation Book

**Grade 2**

CREST
Olympiads

#CRESTInnovator

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**#CRESTInnovator**

**CREST Mental Maths Olympiad (CMMO) Workbook for Grade 2**

First Edition

**Disclaimer:** The information in the Workbook is to give you the path to success but it does not guarantee 100% success as the strategy is completely dependent on its execution.

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# Contents

# Preface

We are pleased to launch first edition of this workbook. We welcome feedback from students, teachers, educators and parents. For improvements in the next edition, please send your suggestions at info@crestolympiads.com. Our team will make an effort to work on those suggestions.

CREST Olympiads is one of the largest Olympiad Exams with students from more than 60 countries. The objective of these exams is to build a competitive spirit while evaluating students on conceptual understanding of the concepts.

We strive to provide a superior learning experience, and this workbook is designed to complement the school studies and prepare the students for various competitive exams including the CREST Olympiads. This workbook provides practice questions on the topics. These questions encourage the students to think analytically, to be creative and to come up with solutions of their own. There is a previous year's paper given at the end of this workbook for the students to attempt after completing the syllabus. This paper should be attempted in 1 hour to get an assessment of the student's preparation for the final exam.

*Publishers*

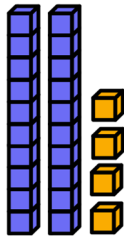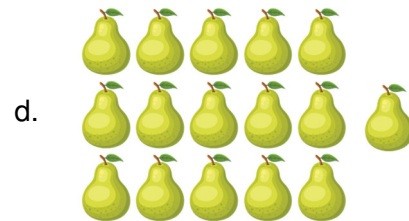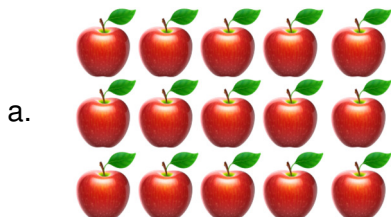# Number and Number Names

**1.** How many snails are there?
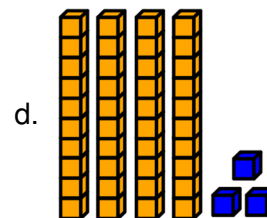


  a.  16        b.  17
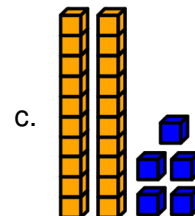  c.  18        d.  19

**2.** Identify the number.



  a.  14        b.  24
  c.  16        d.  42

**3.** Which of the following shows a count of 16?
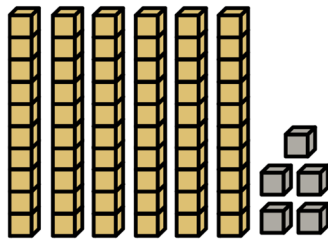
a.



b.



c.



d.



**4.** Which of the following shows the number 52?

a.



b.



c.



d.
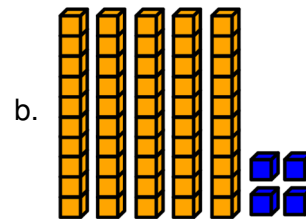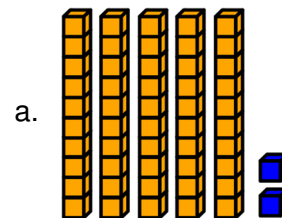


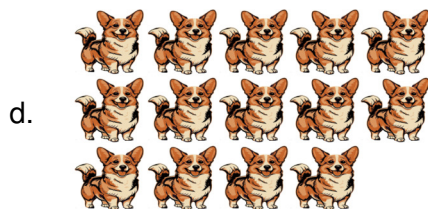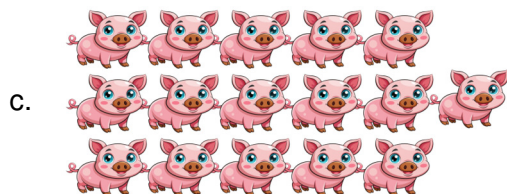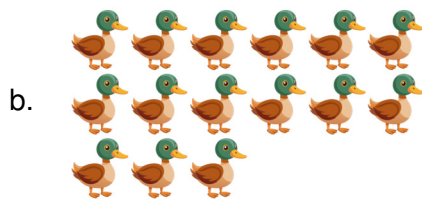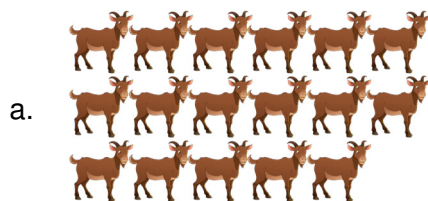**5.** Count the total number of eggs.
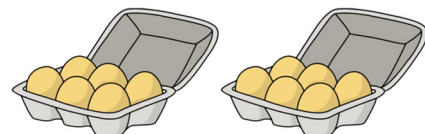


  a.  6        b.  10
  c.  11        d.  12

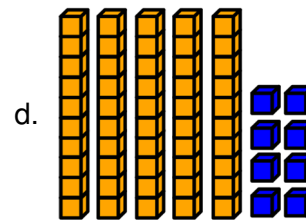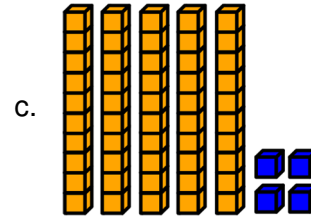**6.** What is the digit at the tens place for the given number?

a. 4      b. 5
c. 6      d. 7

**7.** Which of the following shows the greatest number of animals?

a.

b.

c.

d.

**8.** Which of the following has the digit 0 at the ones place?

a.

b.

c.

d.
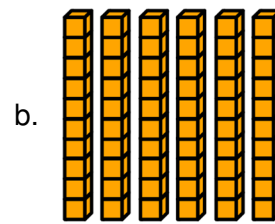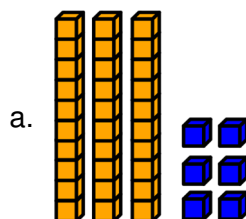
**9.** Count the total number of gift boxes.

a. Thirteen      b. Fourteen
c. Fifteen      d. Sixteen

**10.** What is the successor of the given number?

a. Forty      b. Forty-eight
c. Fifty      d. Sixty

**11.** How many pencils are there?

a. 2 tens      b. 2 ones
c. 22 ones      d. 20 tens

**12.** Which number lies in between the numbers 36 and 38?

a.

b.

c.

d.

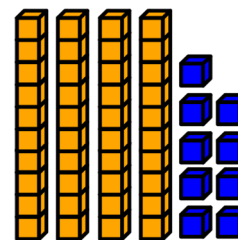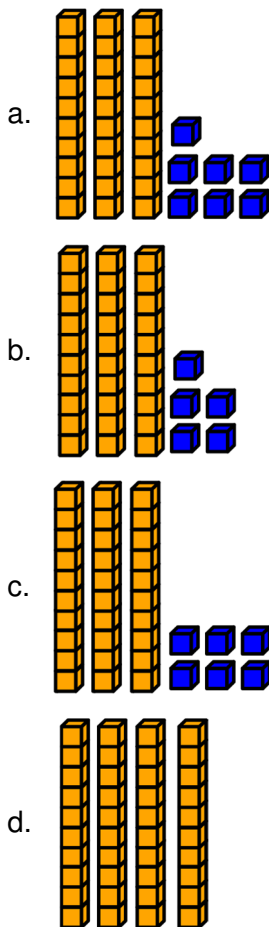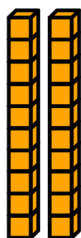**13.** John does forward counting from 15 to 20. The numbers in the box are the numbers he calls out. Which of these numbers is called out is INCORRECT?

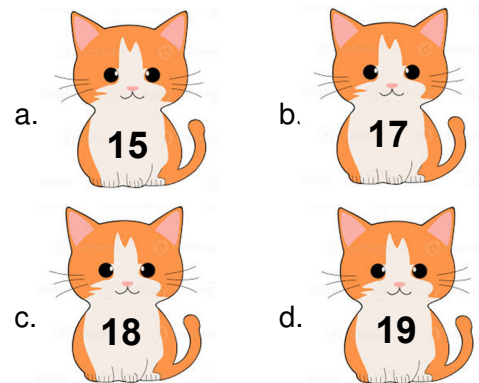| 13 | | 18 |
|----|----|----|
| | 17 | |
| 16 | | 19 |

a. 13          b. 16
c. 17          d. 19

**14.** What is the number name of the predecessor of the given number?
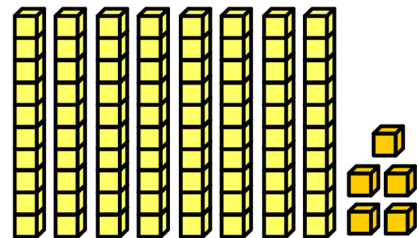
a. Eighteen          b. Nineteen
c. Twenty          d. Twenty-one

**15.** Which of the following numbers will be called out just after 16 while doing backward counting from 20 to 15?

a. 15          b. 17

c. 18          d. 19
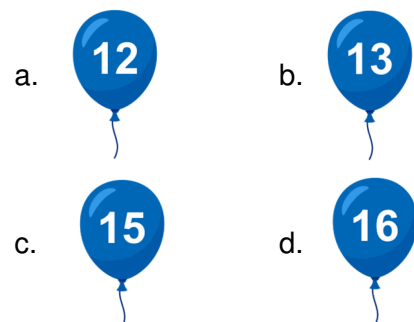
**16.** What is the number obtained when the digits in the tens and ones place of the given number are interchanged?

a. 48          b. 58
c. 68          d. 85

**17.** While doing forward counting from 11 to 15, which number will come just before 14?
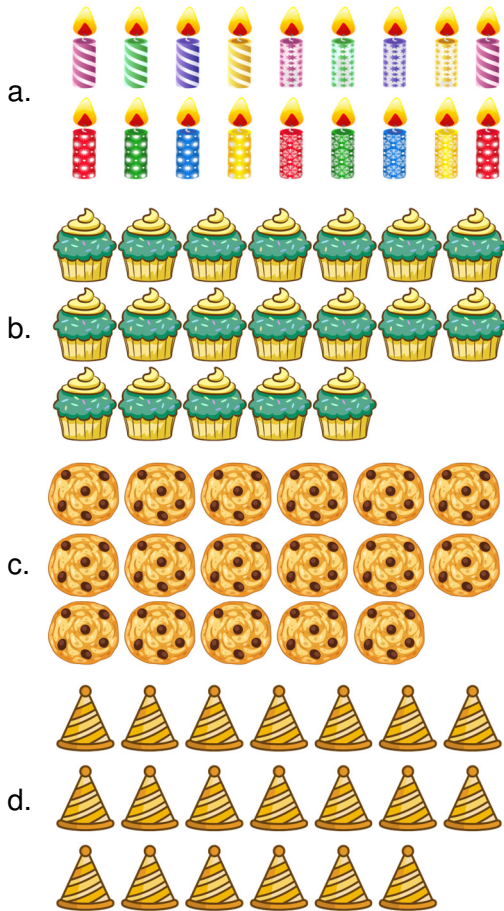
a. 12          b. 13

c. 15          d. 16

**18.** What is 3 tens more than the number shown here?
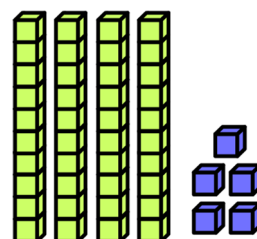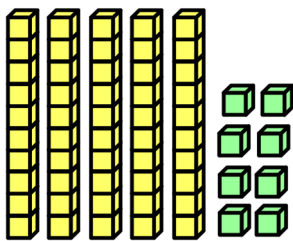
a. 45          b. 48
c. 75          d. 78

**19.** Which of the following shows the predecessor of 20 ones?

a.

b.

c.

d.

**20.** What is 32 ones less than the number shown here?

a.  16          b.  26
c.  80          d.  90

**21.** What is the number name for 59?

a.  Fifty-eight       b.  Fifty-nine
c.  Sixty             d.  Ninety-five

**22.** Identify the series.
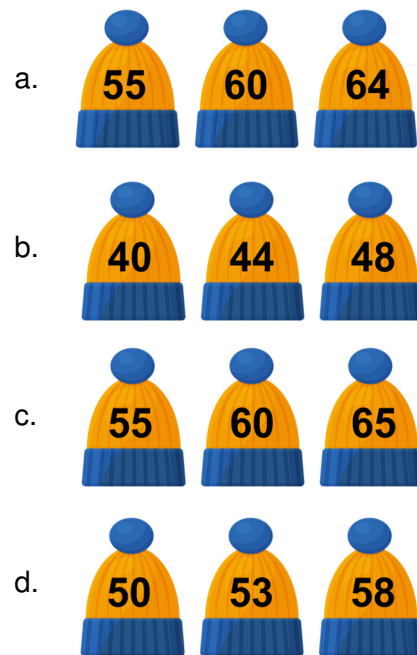
48   50   52

a.  Skip counting 2
b.  Skip counting 3
c.  Skip counting 5
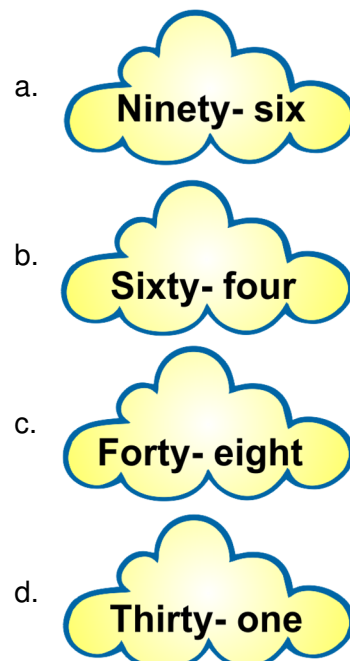d.  Skip counting 10

**23.** What is the number for the number name "Seventy-two"?

a.  27          b.  28
c.  71          d.  72

**24.** Which of the following shows skip counting of 5?

a.   55   60   64

b.   40   44   48

c.   55   60   65

d.   50   53   58

**25.** Which of the following is the least in value?

a.   Ninety- six

b.   Sixty- four

c.   Forty- eight

d.   Thirty- one

**26.** What will come next?

58    61    64    ?

a.  66        b.  67

c.  68        d.  69

**27.** Fill in the blank.
The predecessor of "Seventy" is ___.

a.  Seventy-one     b.  Seventeen
c.  Sixty-nine      d.  Sixty-one

**28.** Fill in the blank.
78, 76, __, 72

a.  71              b.  73
c.  74              d.  75

**29.** What is the successor of 49?

a.  Forty-eight     b.  Fifty
c.  Ninety-three    d.  Ninety-four

**30.** What will come next?

80    70    60    ?

a.  40        b.  50

c.  45        d.  65

**31.** Which of the following numbers is NOT present on the butterfly?

16
84          37
63    25    79
57          92
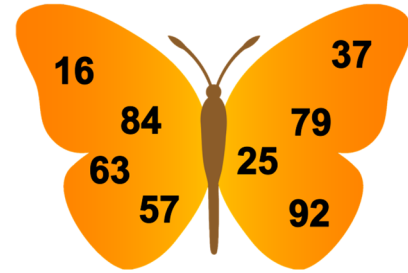
a.  Ninety-two      b.  Seventy-nine
c.  Eighty-four     d.  Fifty-four

**32.** Nora wrote numbers in skip counting of 3 series in the backward direction starting from 81. Which of the following could be written by her?

a.  81, 84, 87      b.  81, 79, 76
c.  81, 78, 75      d.  81, 84, 86

**33.** James scores 79 marks out of 100 in his Maths exam. He checks that there is a calculation mistake and he should be getting five more marks. What will be his score after the mistake is corrected?

a.  Eighty-four     b.  Seventy-four
c.  Eighty-five     d.  Eighty-three

**34.** The teacher wrote skip counting of 5 series in the backward starting from 64. Which number is incorrect in the series?

64, 59, 54, 48, 44
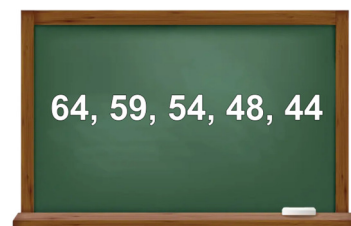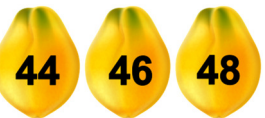
a.  44              b.  48
c.  54              d.  59

**35.** Match the following.

|      | Column I |      | Column II    |
|------|----------|------|--------------|
| 1.   | 18       | a.   | Ninety-seven |
| 2.   | 97       | b.   | Eighteen     |
| 3.   | 81       | c.   | Eighty-one   |

a.  1-b, 2-a, 3-c   b.  1-c, 2-a, 3-b
c.  1-a, 2-b, 3-c   d.  1-b, 2-c, 3-a

**36.** Which of the following is NOT a skip counting of 2 series?

a. 62 64 68

b. 48 50 52

c. 76 78 80

d. 44 46 48

**37.** Which of the following is the successor of the number shown on the abacus?

| T | O |
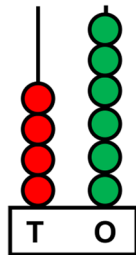
a. Forty-five     b. Forty-seven
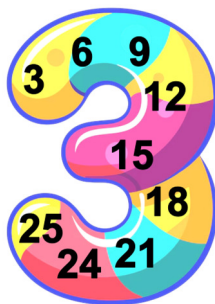c. Sixty-three     d. Sixty-five

**38.** Which number is NOT correct in the skip counting of 3 series shown here?

3 6 9 12 15 18 25 24 21

a. 18        b. 21
c. 24        d. 26

**39.** Which of the following is an even number?

a. Thirty-five     b. Forty-seven
c. Sixty-eight     d. Seventy-three

**40.** Identify the series made by the missing numbers in the calendar.

| 1 | 2 | 3 | 4 | | 6 | 7 | 8 | 9 | |
|---|---|---|---|---|---|---|---|---|---|
| 11 | 12 | 13 | 14 | | 16 | 17 | 18 | 19 | |
| 21 | 22 | 23 | 24 | | 26 | 27 | 28 | 29 | |
| 31 | 32 | 33 | 34 | | 36 | 37 | 38 | 39 | |
| 41 | 42 | 43 | 44 | | 46 | 47 | 48 | 49 | |
| 51 | 52 | 53 | 54 | | 56 | 57 | 58 | 59 | |
| 61 | 62 | 63 | 64 | | 66 | 67 | 68 | 69 | |
| 71 | 72 | 73 | 74 | | 76 | 77 | 78 | 79 | |
| 81 | 82 | 83 | 84 | | 86 | 87 | 88 | 89 | |
| 91 | 92 | 93 | 94 | | 96 | 97 | 98 | 99 | |

a. Skip counting 2
b. Skip counting 3
c. Skip counting 5
d. Skip counting 10

**41.** Which of the following is 42 ones?

a. 24        b. 42
c. 44        d. 420

**42.** What number comes just before 3 tens?
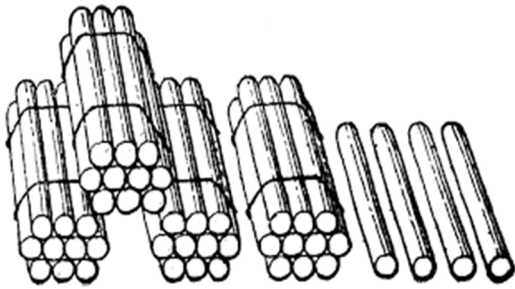
a. 2        b. 4
c. 29       d. 31

**43.** Which of the following makes 68?

a. 8 tens 6 ones     b. 68 ones
c. 68 tens         d. 86 ones

**44.** What is the successor of 79?

a. 7 tens 8 ones     b. 8 tens 7 ones
c. 8 tens            d. 8 ones

**45.** How many total sticks are there?

a. 4 tens 4 ones     5 tens 4 ones
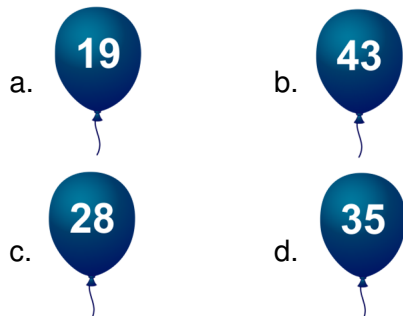b. 3 tens 4 ones   c. 54 ones

**46.** What comes just after eighty-six?

a. 7 tens 8 ones    b. 87 tens
c. 8 tens 5 ones    d. 8 tens 7 ones

**47.** How many tens are there in the number "fifty-nine"?

a. 5          b. 6
c. 7          d. 9

**48.** Which of the following balloons has a number which is more than 3 tens 9 ones?

a. 19        b. 43

c. 28        d. 35

**49.** What will be the number formed after interchanging the digits in tens and ones place in the number seventy-five?

a.
| Tens | Ones |
|------|------|
| 7 | 5 |

b.
| Tens | Ones |
|------|------|
| 5 | 7 |

c.
| Tens | Ones |
|------|------|
| 4 | 7 |

d.
| Tens | Ones |
|------|------|
| 7 | 4 |

**50.** Which of the following is the predecessor of 9 tens?

a. **8 tens 9 ones**

b. **9 ones**

c. **9 tens 1 ones**

d. **8 ones**

**51.** Which of the following is greatest in value?

P **4 tens 13 ones**

Q **3 tens 25 ones**

R **5 tens 2 ones**

S **48 ones**

a. P          b. Q
c. R          d. S

**52.** Which of the following is 18 less than 5 tens 22 ones?

a. **5 tens 4 ones**

b. **4 tens 5 ones**

c. **6 tens 4 ones**

d. **6 tens 5 ones**

**53.** Which is the smallest number?

a. 2 tens 14 ones
b. 3 tens 28 ones
c. 1 tens 25 ones
d. 2 tens 27 ones

**54.** How much is 25 more than 3 tens 28 ones?

a. 7 tens 23 ones
b. 6 tens 13 ones
c. 5 tens 33 ones
d. 4 tens 23 ones

**55.** Match the following.

| | Column I | | Column II |
|----|-----------------|----|-----|
| 1. | 3 tens 28 ones | a. | 36 |
| 2. | 4 tens 15 ones | b. | 58 |
| 3. | 36 ones | c. | 55 |

a. 1-c, 2-b, 3-a
b. 1-c, 2-a, 3-b
c. 1-a, 2-b, 3-c
d. 1-b, 2-c, 3-a

**56.** Jane has 38 stamps. Sofia has 2 tens 21 ones more stamps than Jane. How many stamps does Sofia have?

a. 68
b. 69
c. 79
d. 81

**57.** Fill in the blank.
37 is greater than ___ but less than ___.

a. 2 tens 14 ones, 2 tens 28 ones
b. 2 tens 34 ones, 2 tens 28 ones
c. 2 tens 22 ones, 2 tens 16 ones
d. 1 tens 21 ones, 1 tens 16 ones

**58.** If ○ = 3 tens 14 ones, what is the value

of ○ + 2 tens 12 ones?

a. 46
b. 56
c. 66
d. 76

**59.** Fill in the blank
95 is the same as ___.

a. 4 tens 35 ones
b. 3 tens 55 ones
c. 6 tens 35 ones
d. 7 tens 35 ones

**60.** Which of the following does NOT show the same number as the number on the monkey?

72

a. 6 tens 12 ones
b. 5 tens 42 ones
c. 4 tens 32 ones
d. 3 tens 42 ones

**61.** Which of the following shows the arrangement of numbers in ascending order?

a. 47, 58, 39
b. 39, 58, 47
c. 39, 47, 58
d. 58, 47, 39

**62.** Which of the following statements is correct?

a. 63 > 27
b. 72 < 45
c. 57 > 68
d. 86 < 71

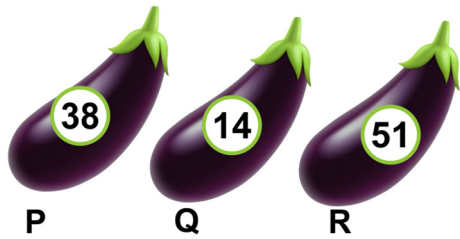**63.** Which of the following shows the arrangement of numbers in descending order?

a. 91, 65, 82
b. 65, 82, 91
c. 91, 82, 65
d. 82, 91, 65
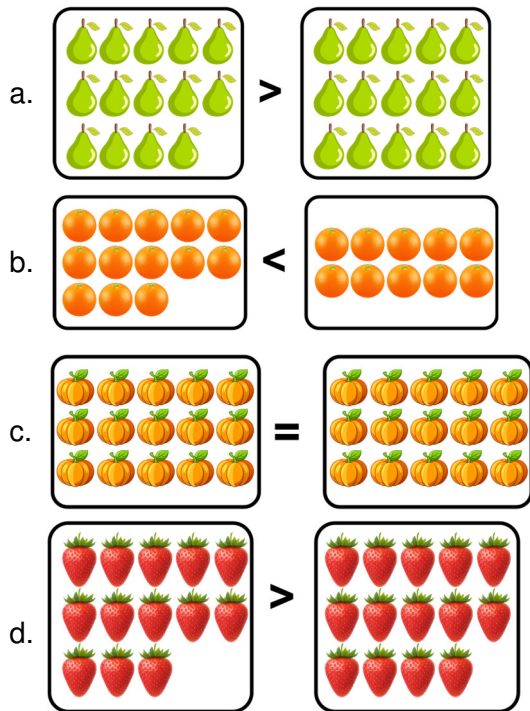
**64.** What sign should come in the circle?

a. >
b. <
c. =
d. None of these

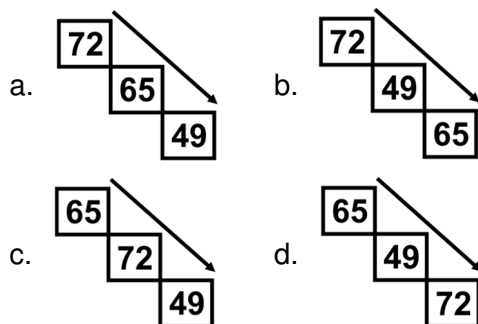**65.** Which of the following shows the arrangement of brinjals in ascending order?



P     Q     R

a. Q < R < P
b. Q < P < R
c. P < R < Q
d. P < Q < R

**66.** Which of the following is correct?



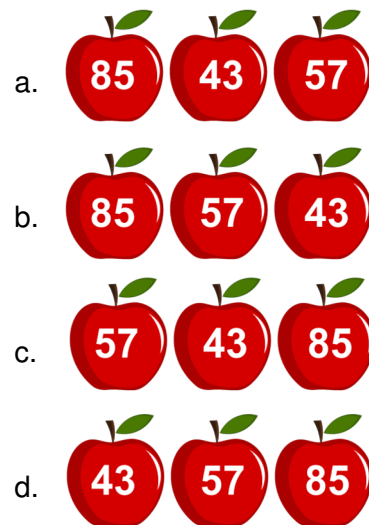**67.** Which of the following correctly shows the descending order of numbers?



**68.** What sign should come in the circle?
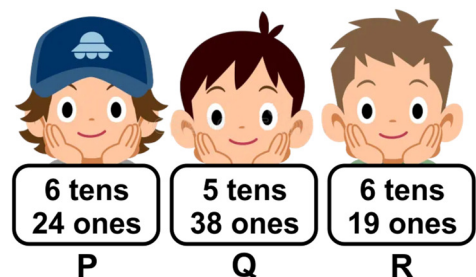


a. >
b. <
c. =
d. None of these

**69.** Which of the following shows the arrangement of apples in ascending order?



**70.** Which of the following is correct?

a. Sixty-four > Seventy-one
b. Thirty-six < Forty-nine
c. Fifty-eight > Sixty-seven
d. Sixty-two < Forty-one

**71.** Which of the following shows the arrangement of numbers in descending order?



P     Q     R

a. Q > P > R
b. P > Q > R
c. Q > R > P
d. R > P > Q

**72.** Which of the following is correct?

a.
| 4 tens 25 ones | > | 3 tens 18 ones |

b.
| 3 tens 18 ones | < | 4 tens 2 ones |

c.
| 2 tens 27 ones | < | 3 tens 16 ones |

d.
| 2 tens 34 ones | > | 4 tens 16 ones |

**73.** Which of the following shows the ascending order of the given numbers?

a. Seventy-five, Forty-eight, Sixty-four
b. Forty-eight, Seventy-five, Sixty-four
c. Forty-eight, Sixty-four, Seventy-five
d. Sixty-four, Forty-eight, Seventy-five

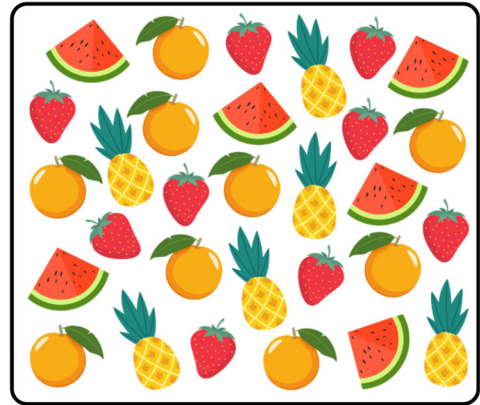**74.** Which of the following statements is NOT correct?

a. 4 tens > 42 ones
b. 6 tens < 72 ones
c. 5 tens > 28 ones
d. 3 tens < 63 ones

**75.** Which of the following shows the arrangement of numbers in ascending order?

**83**   **45**   **32**   **54**

a. 32, 45, 83, 54      b. 45, 32, 83, 54
c. 32, 45, 54, 83      d. 83, 45, 32, 54

**76.** Count the number of each fruit in the picture. Which statement is correct based on the given picture?

a. watermelon > strawberry
b. watermelon = pineapple
c. strawberry < orange
d. orange < pineapple

**77.** Arrange the given words in ascending order of the number of alphabets. Subtraction, Multiplication, Addition

a. Addition < Multiplication < Subtraction
b. Subtraction < Multiplication < Addition
c. Addition < Subtraction < Multiplication
d. Multiplication < Addition < Subtraction

**78.** Which of the following statements is NOT correct based on the count of animals in the picture?
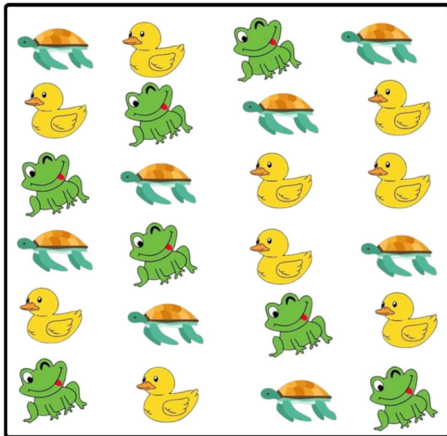


a.  Number of ducks > Number of frogs
b.  Number of frogs < Number of tortoises
c.  Number of ducks > Number of tortoises
d.  Number of ducks < Number of frogs

**79.** The table shows the number of marbles with four children. Arrange the children in descending order of the number of marbles they have.

| David | 38 ones |
| William | 5 tens |
| Jones | 45 ones |
| Terry | 6 tens |

a.  Terry > William > Jones > David
b.  Terry > Jones > William > David
c.  Terry > David > Jones > William
d.  William > Terry > Jones > David

**80.** Which of the following statements is NOT correct?

a.  Seventy-three < Forty-five
b.  Thirty-one > Twenty-eight
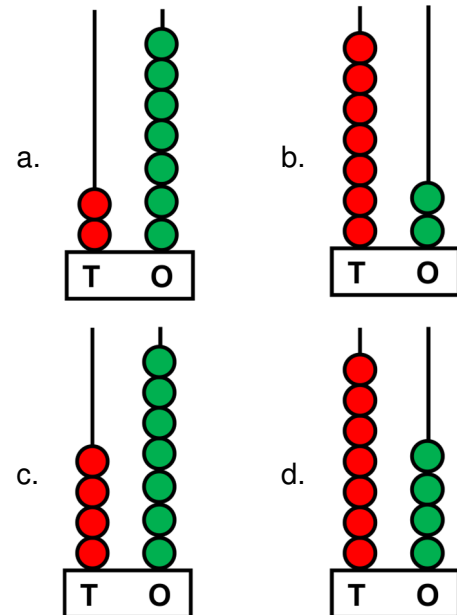c.  Sixty-two < Eighty-three
d.  Thirty-nine > Nineteen

**81.** Identify the number:
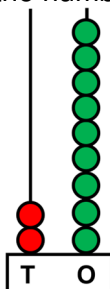


a.  28          b.  29
c.  82          d.  92

**82.** What is the place value of the underlined digit in the number 95?

a.  9          b.  19
c.  59          d.  90

**83.** Which of the following abacuses shows the number seventy-two?



**84.** The place value of 3 in a number is 30. Which of the following could be that number?
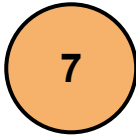
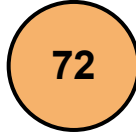a.  3          b.  23
c.  38          d.  53

**85.** Sana puts 7 beads in tens place of the abacus and 4 beads in the ones place of the abacus. What is the number formed by her?

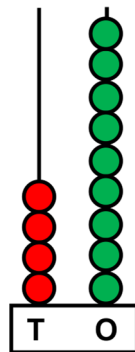a.  Forty-seven          b.  Forty
c.  Seventy          d.  Seventy-four

**86.** Fill in the blank.
There are ___ tens in the number seventy-eight.

a.  5          b.  7
c.  8          d.  9

**87.** Which of the following numbers has the greatest place value of 7?

a. 7
b. 47
c. 72
d. 87

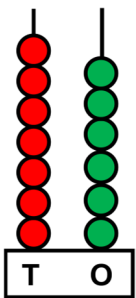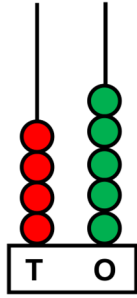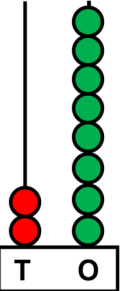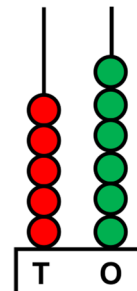**88.** What will be the successor of the given number?



a. 4 tens 8 ones
b. 4 tens 9 ones
c. 5 tens
d. 5 tens 1 ones

**89.** If we swap the digits of the number 57, what will be the new place value of 5?
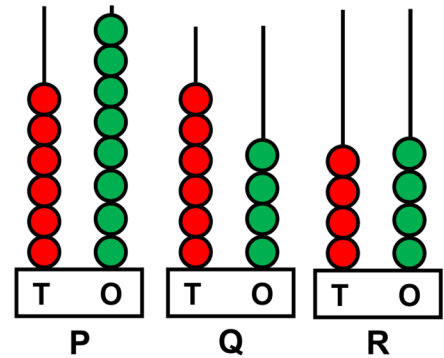
a. 5
b. 15
c. 50
d. 55

**90.** Which of the following numbers is greatest in value?



a.
b.
c.
d.

**91.** What is the sum of the place values of the digit 7 in the numbers 17 and 87?

a. 7
b. 14
c. 70
d. 77

**92.** Which of the following shows the arrangement of numbers in ascending order?
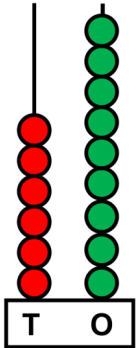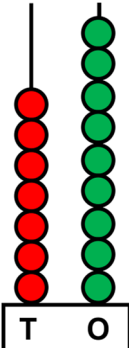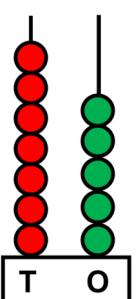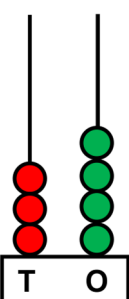


a. P < Q < R
b. P < R < Q
c. Q < P < R
d. R < Q < P

**93.** Find the difference in the place values of the underlined digits in the numbers 83 and 76?

a. 2
b. 20
c. 52
d. 74

**94.** What is 29 more than 5 tens?



a.
b.
c.
d.

**95.** How many beads are required to show the number 95 on the abacus?

a. 5          b. 9
c. 13         d. 14

**96.** Which of the following numbers will have the least place value of 2?

a. **2 tens**          b. **6 tens 12 ones**

c. **2 tens 8 ones**    d. **1 tens 14 ones**

**97.** Diana has some plants in her garden. Here are some clues to find the number of plants in her garden.
  i. The number of plants planted by her is even.
  ii. The tens place digit has a place value of 50.
  iii. Which of the following could be the number of plants she has in her garden?

a. 25          b. 53
c. 58          d. 65

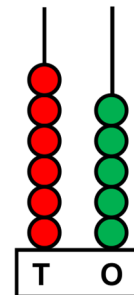**98.** How much is 32 less than the number shown on the abacus?
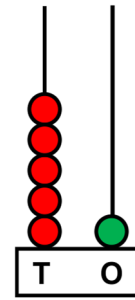
a. 19          b. 21
c. 28          d. 29

**99.** What is the place value of the tens places digit in the number 3 tens 26 ones?

a. 5          b. 6
c. 50         d. 60

**100.** How much more is 71 than the number shown on the abacus?

a. 5          b. 6
c. 15         d. 16