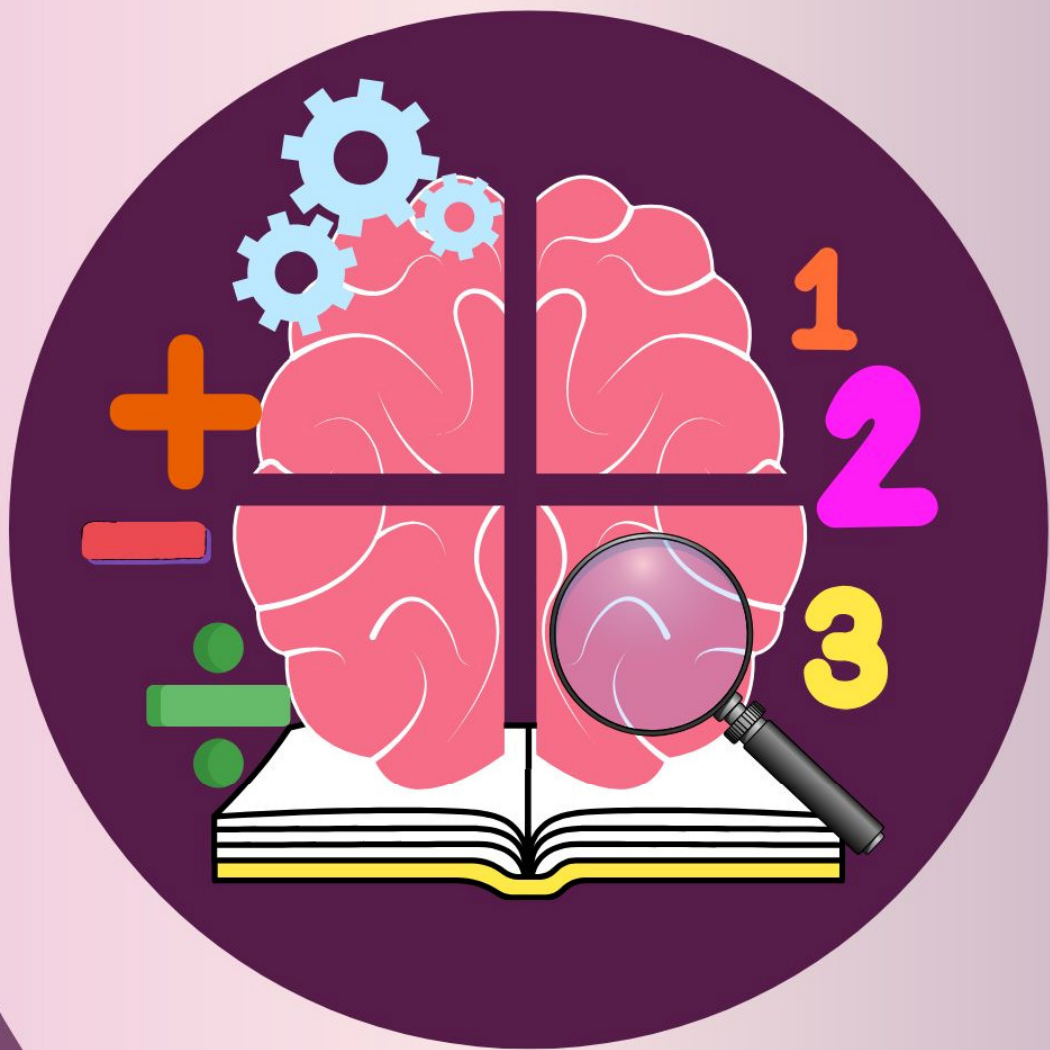




1

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 1



#CRESTInnovator

www.crestolympiads.com

CREST Mental Maths Olympiad (CMMO) Workbook for Grade 1

First Edition

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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.

Published & Distributed by: Loyalty Square Analytic Solutions Private Limited
Corporate Office: B2 -234, Spaze IT Park, Sector-49, Gurgaon, Haryana-122018, India

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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.

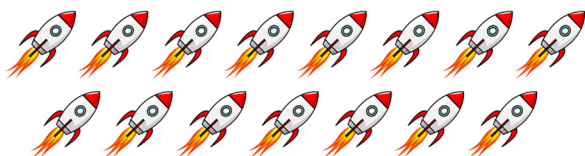
We strive to provide a superior learning experience, and this workbook is designed to complement the school studies and prepare the students for various competitive exams including the CREST Olympiads. This workbook provides practice questions on the topics. These questions encourage the students to 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

Chapter 1

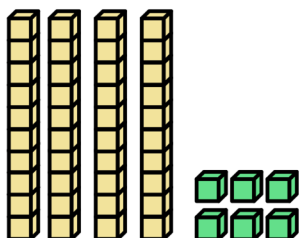
Number and Number Names

1. How many rockets are there?



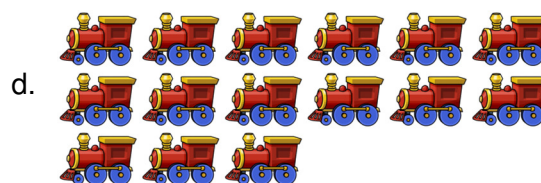
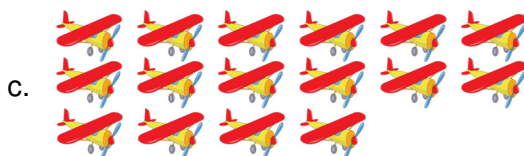
- a. 14 tens b. 1 tens 3 ones
c. 15 ones d. 1 tens 15 ones

2. Identify the number.

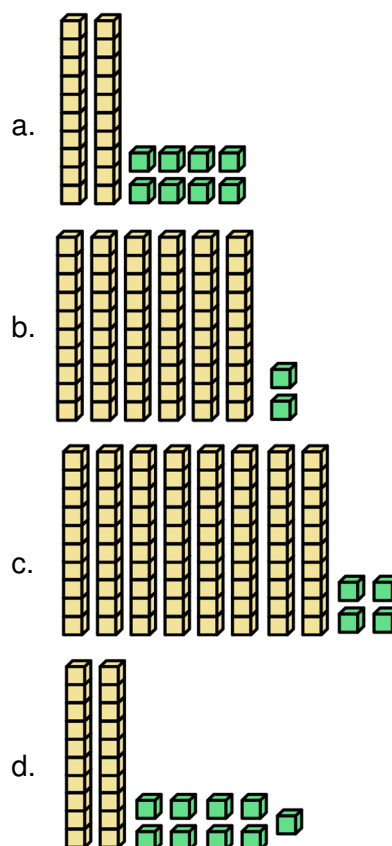


- a. 35 b. 46
c. 64 d. 14

3. Which of the following shows exactly seventeen objects?



4. Which is the smallest number?



5. Which of the following two boxes have the same number of tennis balls?

P	Q	R	S

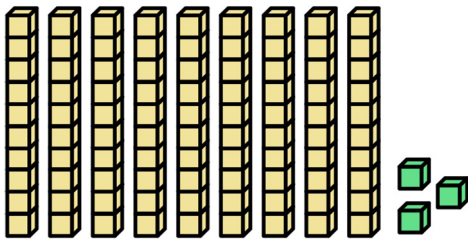
- a. P and Q b. Q and R
c. P and R d. R and S

6. How many star-shaped cookies are there?



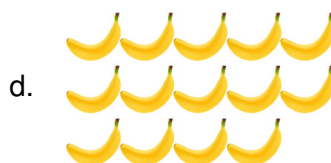
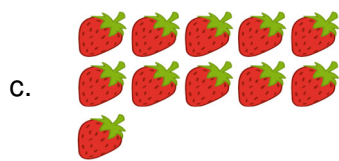
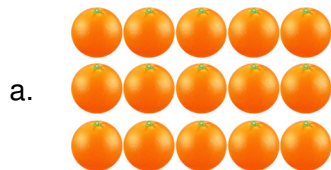
- a. Eight
b. Nine
c. Ten
d. Eleven

7. How many tens are there?

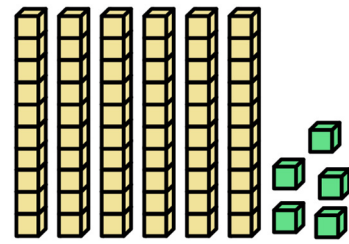


- a. 2
b. 3
c. 8
d. 9

8. Which of the following is less than 1 tens 3 ones?

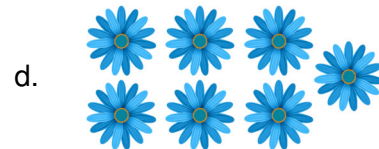
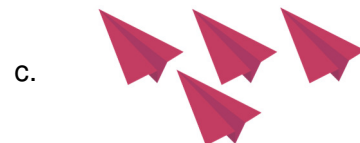
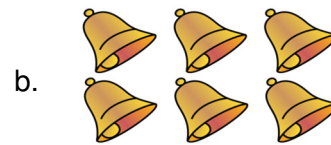


9. Which of the following is the predecessor of the number represented here?

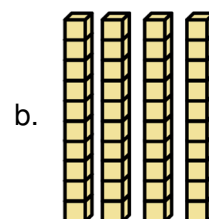
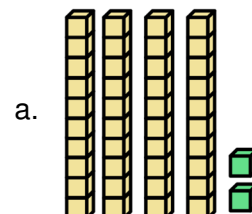


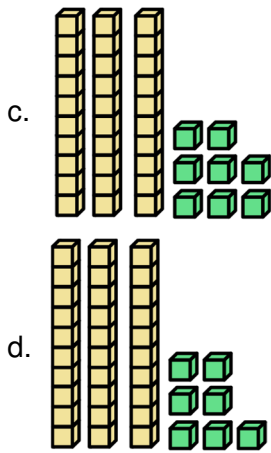
- a. 56
b. 64
c. 65
d. 66

10. Which of the following shows the greatest number of objects?

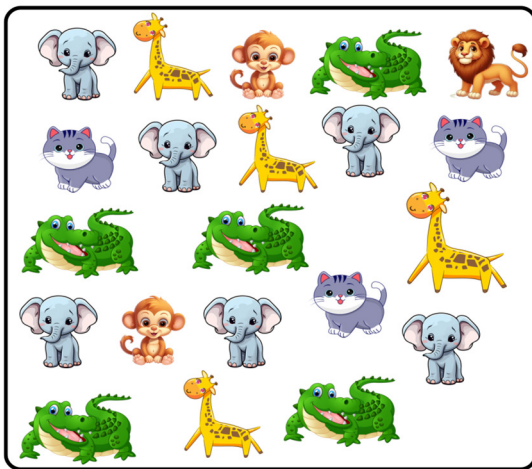


11. Which of the following comes in between the given numbers?



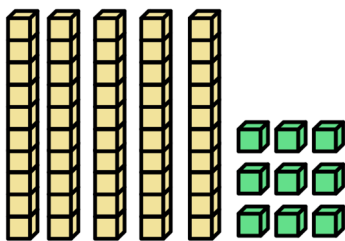


12. What is the total number of animals in the picture?



- a. 19 b. 20
c. 21 d. 22

13. What is the number name of the number that comes just after the number represented here?



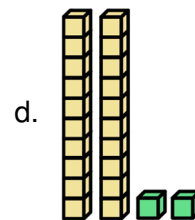
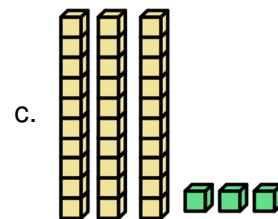
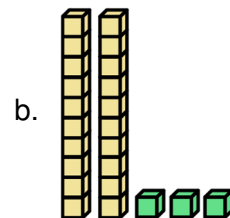
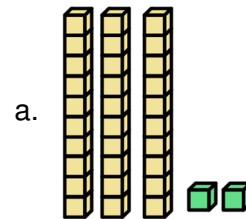
- a. Fifty-eight b. Sixty
c. Ninety-four d. Ninety-six

14. What is the total number of ducks and frogs?

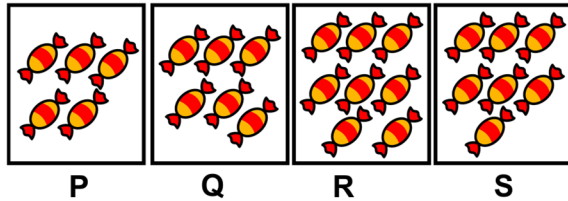


- a. 14 b. 15
c. 16 d. 17

15. Which of the following represents 32 ones?

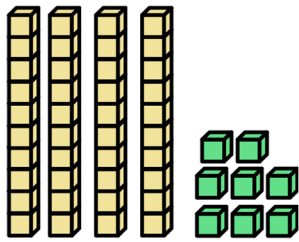


16. Which of the following two boxes add up to 15 toffees?



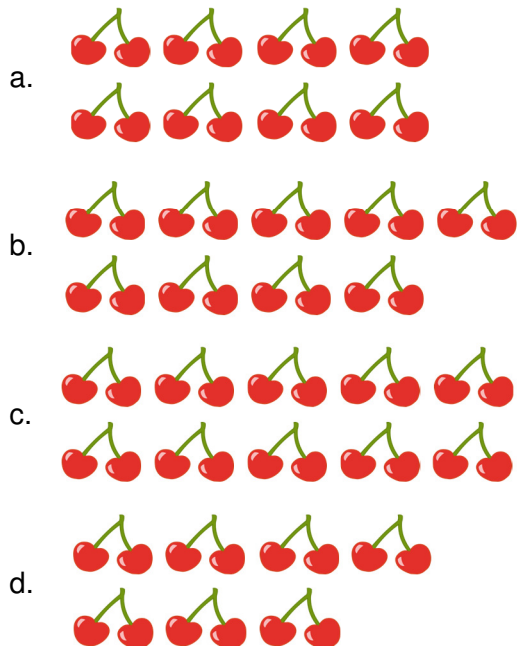
- a. P and Q b. P and R
c. Q and R d. R and S

17. How many ones are there?

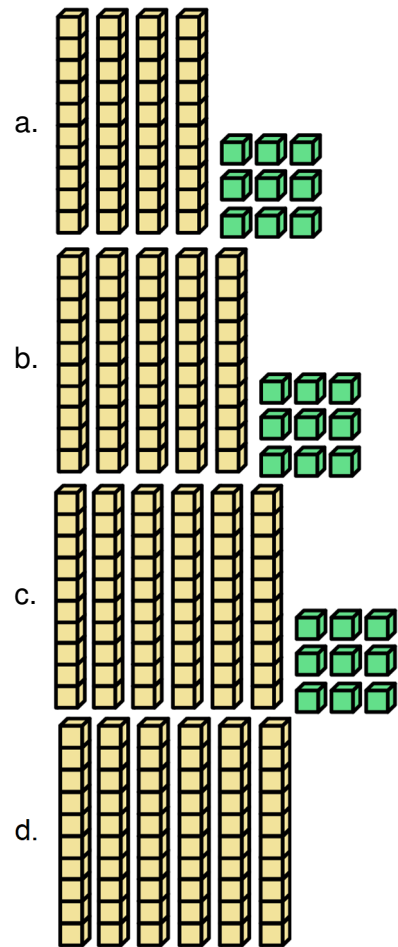


- a. 4 b. 5
c. 7 d. 8

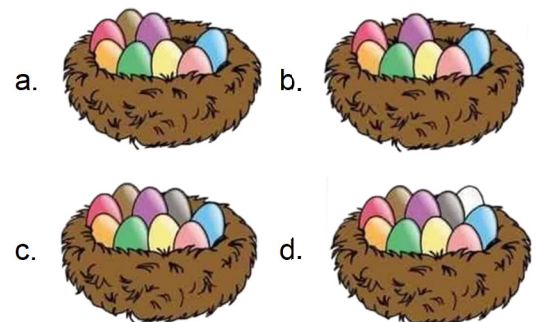
18. Which of the following shows a count of eighteen cherries?



19. Which of the following comes just before 60?



20. Which of the following has the greatest number of eggs?



21. What is the correct number name for 80?

- a. Eighteen b. Eight
c. Eight-zero d. Eighty

22. Complete the given pattern.



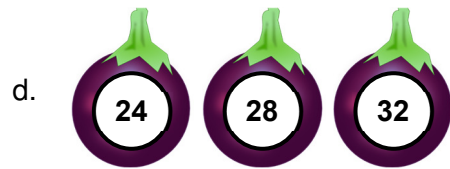
- a. b.
- c. d.

23. Which shoe size lies between the numbers six and eight?

- a.
- b.
- c.
- d.

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

- a.
- b.
- c.



25. Which of the following shirt size is greater than “thirty-six” but less than “thirty-eight”?

- a. b.
- c. d.

26. Identify the pattern.



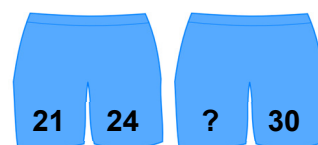
- a. Skip counting of 3
b. Skip counting of 4
c. Skip counting of 10
d. Skip counting of 5

27. How many leaves are there?



- a. Ten
b. Eleven
c. Twelve
d. Thirteen

28. Identify the missing number.



- a. 26
b. 27
c. 28
d. 29

29. What is the number name for 4 tens 8 ones?

- a. Forty b. Forty-eight
c. Eighty d. Eighty-four

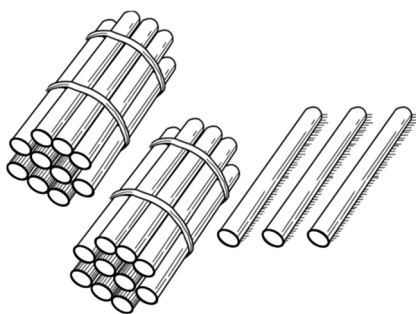
30. Which of the following will be Figure 5 of the chocolate bar?



Fig. 1 Fig. 2 Fig. 3 Fig. 4

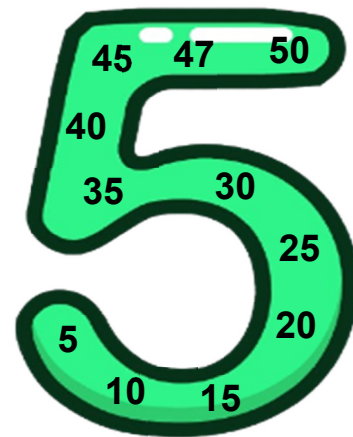
- a.
- b.
- c.
- d.

31. What is the total number of sticks?



- a. Twenty-one b. Twenty-three
c. Twenty-five d. Twenty-seven

32. Which number is NOT correct in the given skip counting series?



- a. 35 b. 40
c. 45 d. 47

33. Which of the following matches correctly?

- a. : Four
- b. : Seven
- c. : Seven
- d. : Nine

34. Identify skip counting of 3 series.

- a. 69 72 75
- b. 68 71 75
- c. 65 69 74
- d. 66 68 71

35. There are a total of ____ books on the rack.



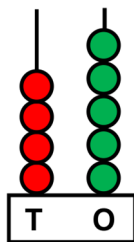
- a. twenty-one b. twenty-two
c. twenty-three d. twenty-four

36. Which of the following will be Figure 4?



- a.
- b.
- c.
- d.

37. What is the number name of the predecessor of the given number?



- a. Forty-four b. Forty-five
c. Forty-six d. Fifty-four

38. What should come next?

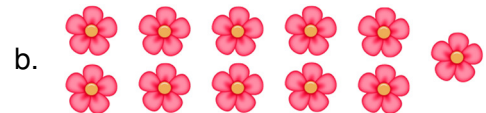


- a.
- b.
- c.
- d.

39. Which of the following is NOT matched correctly?



Twelve



Eleven



Thirteen



Fourteen

40. Complete the series.



- a.
- b.
- c.
- d.

41. Which of the following is 5 tens?

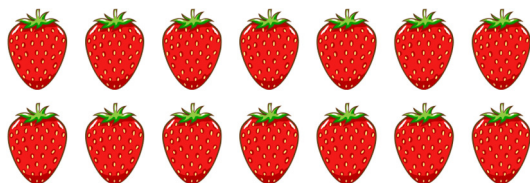
- a. 5 b. 15
c. 50 d. 55

42. Which of the following is 5 tens?



- a. 3 tens 8 ones b. 38 ones
c. 83 tens d. 83 ones

43. What is the number of strawberries?



- a. 1 tens 4 ones b. 4 tens 1 ones
c. 14 tens 0 ones d. 0 tens 41 ones

44. Which of the following is the predecessor of 7 tens?

- a. 69 tens b. 69 ones
c. 9 tens 6 ones d. 96 ones

45. Which of the following is the greatest number?

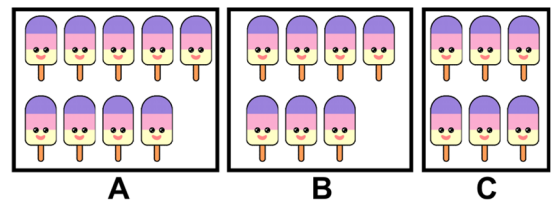
- a. 7 tens 18 ones b. 6 tens 24 ones
c. 5 tens 36 ones d. 6 tens 17 ones

46. Identify the number.



- a. 6 ones b. 16 ones
c. 61 ones d. 6 tens

47. Which of the following statements is CORRECT?

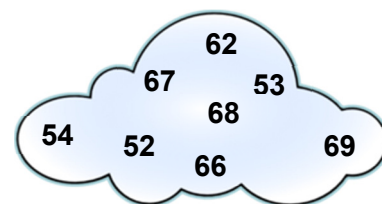


- a. A has less number of ice-creams than B.
b. B has less number of ice-creams than C.
c. A has more number of ice-creams than B.
d. C has more number of ice-creams than A.

48. Which of the following is least in value?

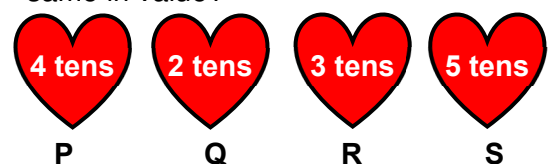
- a. 5 tens 22 ones
b. 4 tens 26 ones
c. 4 tens 38 ones
d. 5 tens 19 ones

49. Which of the number on the cloud is more than fifty-five but less than 6 tens 5 ones?



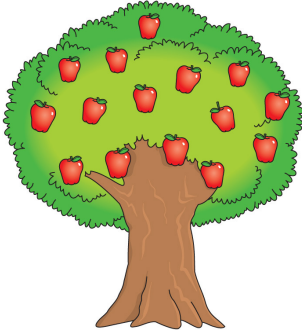
- a. 54 b. 62
c. 67 d. 68

50. Which of the given numbers are the same in value?



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

51. Which of the following statements is CORRECT?



- a. There are more than 16 apples on the tree.
 b. There are less than 14 apples on the tree.
 c. There are more than 14 apples on the tree.
 d. There are 15 tens apples on the tree.
52. Which of the following numbers has 6 tens?
- a. 16 b. 62
 c. 86 d. 96
53. What is the successor of eighty-six?
- a. 6 tens 17 ones b. 4 tens 37 ones
 c. 7 tens 27 ones d. 5 tens 37 ones
54. Which of the following numbers has more tens than ones where one of the digits is 9?
- a. 19 b. 69
 c. 86 d. 98
55. Which number comes just before 5 tens 27 ones?
- a. Sixty-six b. Seventy-six
 c. Sixty-seven d. Seventy-eight
56. Which of the following is matched CORRECTLY?
- a. 4 tens 28 ones = 68
 b. 2 tens 45 ones = 55
 c. 3 tens 11 ones = 51
 d. 4 tens 15 ones = 65

57. Which basket has more than eight and less than ten apples?



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

58. What is 3 tens 25 ones?

- a. 25 b. 35
 c. 45 d. 55

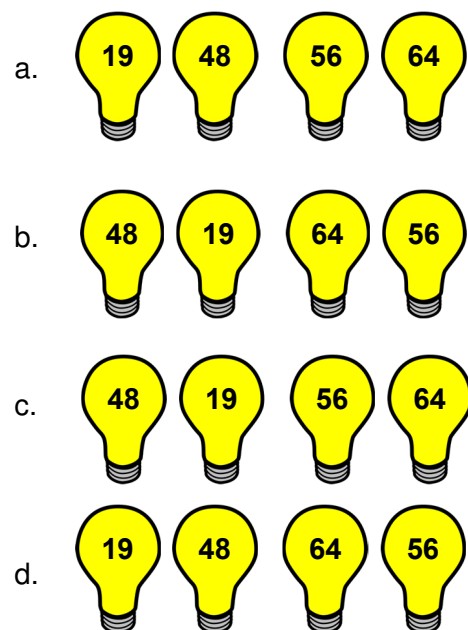
59. Which of the following statements is incorrect?

- a. 29 comes just before 30.
 b. 60 comes just after 49.
 c. 19 comes just before 20.
 d. 67 comes just after 66.

60. Which of the following is NOT matched correctly?

- a. 6 tens 4 ones = 64
 b. 7 tens 28 ones = 88
 c. 5 tens 31 ones = 81
 d. 5 tens 22 ones = 72

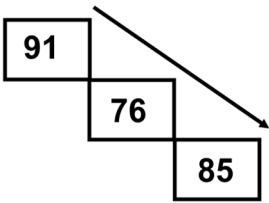
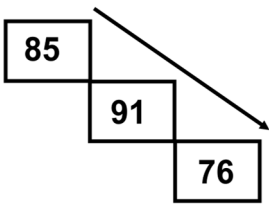
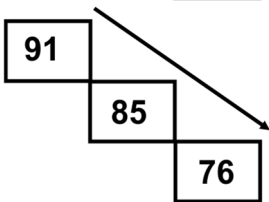
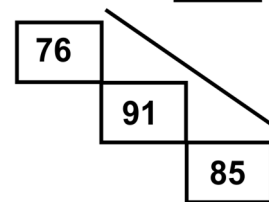
61. Which of the following shows the numbers arranged in ascending order?



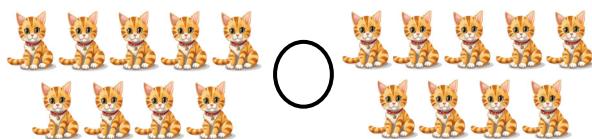
62. Which of the following statements is CORRECT?

- a. $38 > 42$ b. $54 < 29$
c. $72 > 65$ d. $59 < 47$

63. Which of the following shows descending order of numbers?

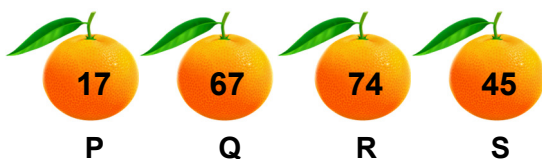
- a. 
- b. 
- c. 
- d. 

64. What sign should come in the circle?




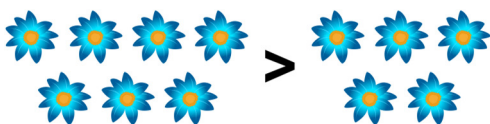
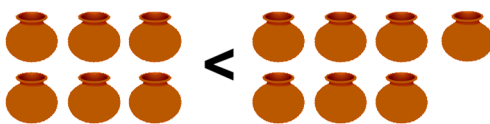
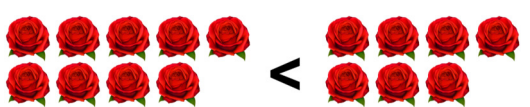
- a. $>$ b. $<$
c. $=$ d. None of these

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

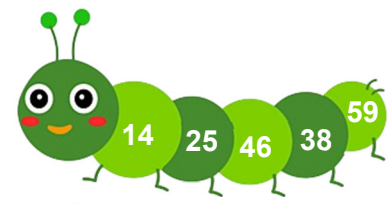

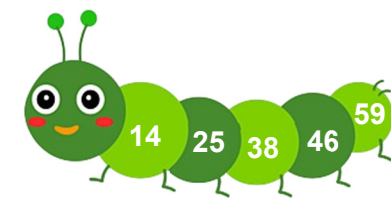



- a. R, Q, S, P b. P, S, R, Q
c. P, R, Q, S d. P, S, Q, R

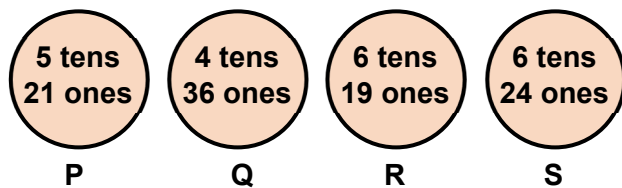
66. Which of the following is NOT correct?

- a. 
- b. 
- c. 
- d. 

67. Which caterpillar has an arrangement of numbers in increasing order?

- a. 
- b. 
- c. 
- d. 

68. Which of the following statements is CORRECT?



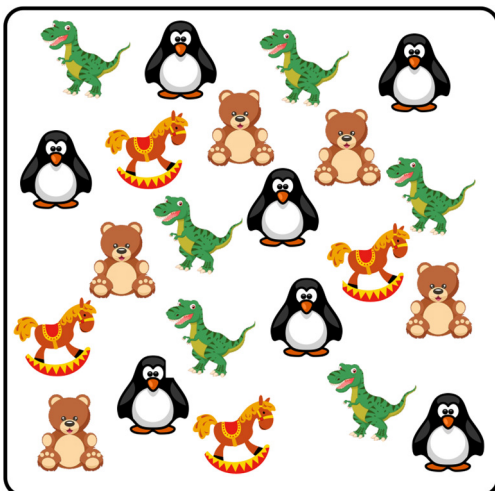
- | | |
|------------|------------|
| a. $P > Q$ | b. $Q > R$ |
| c. $R < S$ | d. $R < P$ |

69. Maria is juggling with her number balls. Which of the following shows the arrangement of balls in decreasing order of the numbers?



- | |
|---------------------------|
| a. 41, 40, 35, 25, 22, 18 |
| b. 18, 22, 25, 35, 40, 41 |
| c. 41, 40, 25, 35, 18, 22 |
| d. 41, 40, 25, 35, 22, 18 |

70. The picture shows some toys. Count and find which of the following statements is correct.

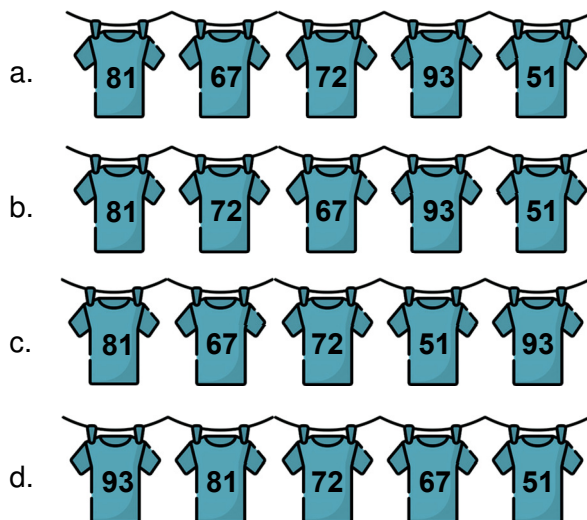


- | |
|--|
| a. Number of dinosaurs $<$ Number of teddy bears |
| b. Number of horses $>$ Number of |

penguins

- | |
|---|
| c. Number of penguins $>$ Number of dinosaurs |
| d. Number of teddy bears $<$ Number of horses |

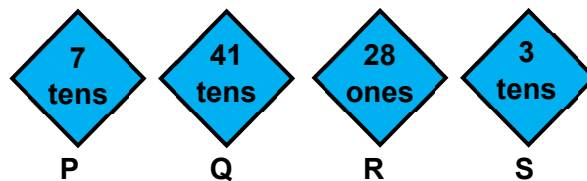
71. Which of the given clothesline shows the arrangement of numbers from greatest to least?



72. Which of the following statements is NOT correct?

- | |
|------------------------------|
| a. 4 tens $<$ 38 ones |
| b. 42 ones $>$ 4 tens |
| c. 5 tens 8 ones = 58 ones |
| d. 6 tens 3 ones $<$ 72 ones |

73. Which of the following shows the order of numbers from least to greatest?



- | | |
|---------------|---------------|
| a. R, S, Q, P | b. R, S, P, Q |
| c. P, Q, S, R | d. R, Q, S, P |

74. Count the number of each object in the image. Which of the following statements is correct?



- a. <
- b. =
- c. <
- d. >

75. Arrange the given number names in decreasing order of the number of letters.

Eighteen, Fifty, Six, Twenty

- a. Eighteen, Six, Twenty, Fifty
b. Fifty, Six, Twenty, Eighteen
c. Six, Eighteen, Twenty, Fifty
d. Eighteen, Twenty, Fifty, Six

76. Which of the following is NOT correct?

- a. b.
- c. d.

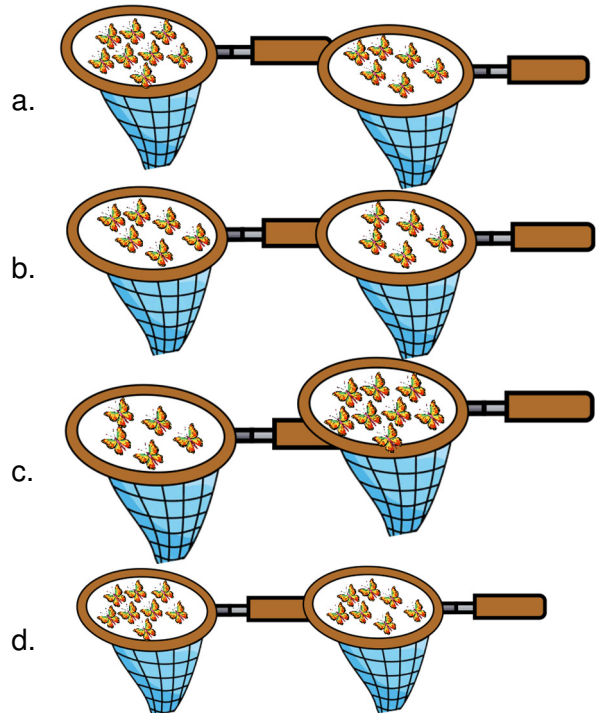
77. The ages of four children are given. Which of the following shows the ages of the children in ascending order?

David: 7 years 9 months
John: 6 years 11 months

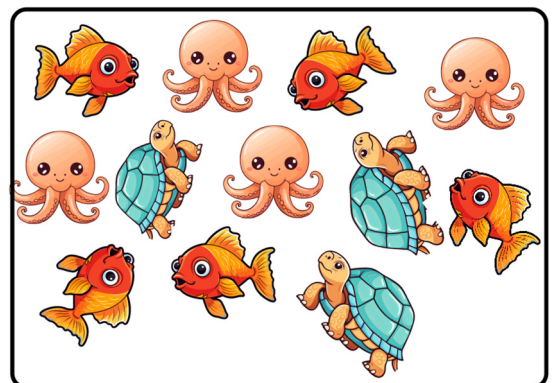
Peter: 7 years 4 months
Diana: 6 years 8 months

- a. Diana, John, Peter, David
b. Diana, Peter, John, David
c. John, Diana, Peter, David
d. David, Peter, John, Diana







78. Which of the following is correct based on the count of the butterflies caught in the net?



79. Based on the count of each of the objects, which of the following shows the correct descending order?



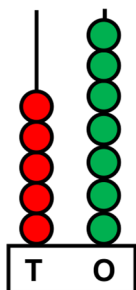
- a. > >
- b. < <

- c.  >  > 
- d.  <  < 

80. Which of the following statements is correct based on the numerical value of the number names?

- a. Twenty-seven > Forty-three
b. Fifty-six > Seventy-eight
c. Fourteen < Thirty-eight
d. Forty-two > Sixty-one

81. What is the number shown on the abacus?

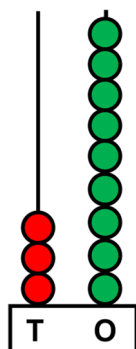


- a. 46 b. 47
c. 56 d. 57

82. What is the place value of digit 6 in the number 76?

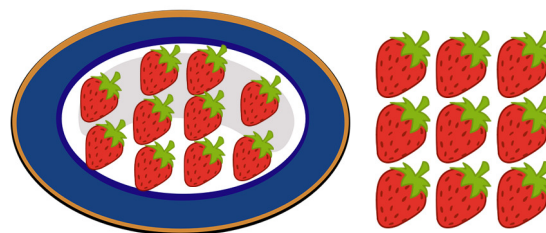
- a. 6 b. 16
c. 60 d. 66

83. What is the number formed when the number of beads at the tens and ones place of the abacus is interchanged?



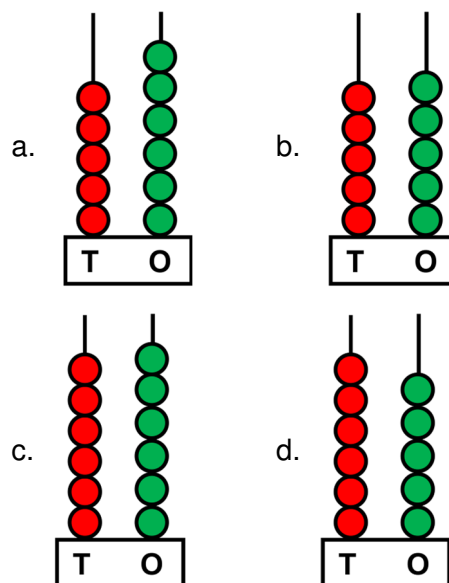
- a. 39 b. 48
c. 84 d. 93

84. Which of the following is the same as the given image?

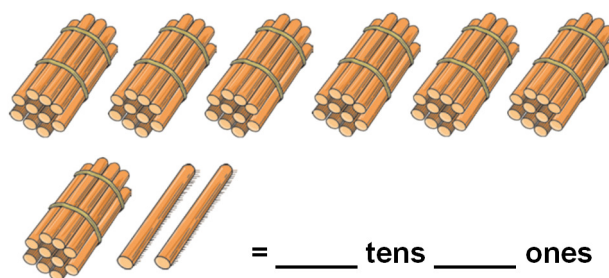


- a. 1 ten 8 ones b. 1 ten 9 ones
c. 8 tens 1 ones d. 9 tens 1 ones

85. Which of the following shows the number 65?

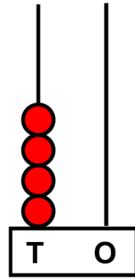


86. Fill in the blank.



- a. 2, 7 b. 2, 8
c. 7, 2 d. 8, 2

87. What is the predecessor of the given number?

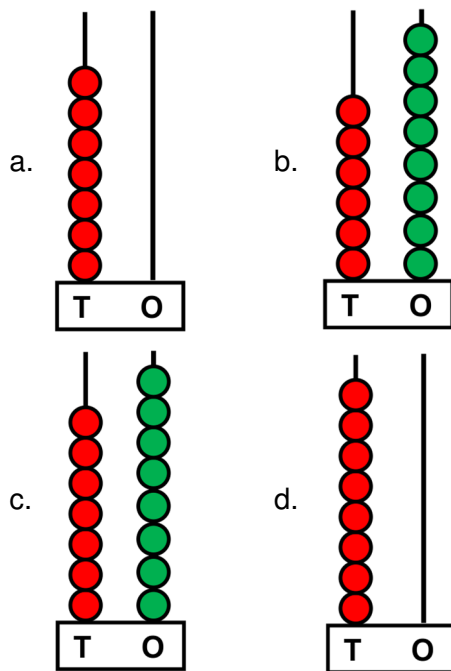


- a. 38 b. 39
c. 40 d. 41

88. What is the sum of the place values of the digit 3 in the numbers 38 and 73?

- a. 6 b. 33
c. 36 d. 60

89. Which of the following is the successor of sixty-nine?

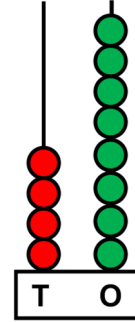


90. How many tens and ones are there?



- a. 3 tens 3 ones b. 3 tens 4 ones
c. 4 tens 3 ones d. 4 tens 4 ones

91. How many more ones than tens are there?

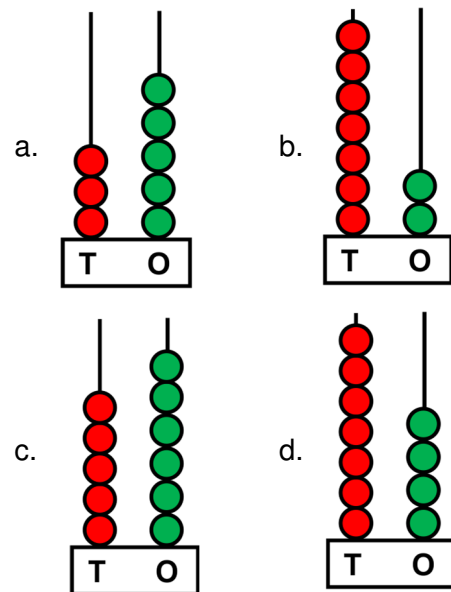


- a. 3 b. 4
c. 5 d. 9

92. What is the difference in the place values of the underlined digits in the numbers 45 and 78?

- a. 12 b. 32
c. 48 d. 76

93. Which of the following numbers is the least in value?



94. Which of the following is NOT correct?

a. 49 =


Tens	Ones
4	9

b. 72 =

Tens	Ones
7	2

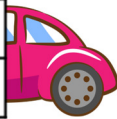
c. $84 =$

Tens	Ones
4	8

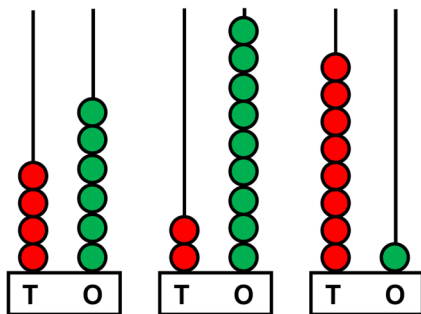


d. $94 =$

Tens	Ones
9	4



95. Which of the following shows the abacuses arranged in increasing order of the values?

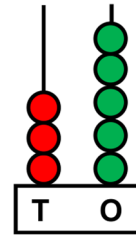


- a. P, Q, R
b. R, Q, P
c. Q, P, R
d. Q, R, P

96. What is the place value of 0 in the number "Ninety"?

- a. 0
b. 9
c. 19
d. 90

97. Which of the following is more than the number shown on the abacus?



- a. 19
b. 24
c. 28
d. 37

98. In which of the given numbers the place value of 4 will be greatest?

- a. 14
b. 42
c. 64
d. 94

99. How many beads will be used to show the number 87 on the abacus?

- a. 7
b. 8
c. 14
d. 15

100. Fill in the blank.
 $79 = \underline{\quad} + 9$

- a. 7
b. 17
c. 70
d. 79

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