MATHS

BOOKS - BETOPPERS

NUMBER SYSTEM - I

Formative Worksheet

1. Which number is greater: 1268 or 1286?

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2. Find the greater number:

4387, 903

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3. Find the greater number:

42183, 7319

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4. Find the greater number:

80375, 154562

5. Find the greater number:

5483, 6109

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6. Find the greater number:

51037, 48876

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7. Find the greater number:

293179, 380113

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8. Find the smallest number:

7379, 7501

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9. Find the smallest number:

37910, 37198

10. Find the smallest number:

417393, 417501

11. Find the smallest number:

747631, 747609

12. Arrange the following numbers in ascending order:

6895, 23787, 413752

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13. Arrange the following numbers in ascending order:

11705, 217156, 93172, 287191

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14. The smallest 4-digit number having three different digits is

15. What will be the greatest and the smallest five-digit number that can be formed using the digits 5, 7, 0, 2, and 9 without repetition?

16. Write the greatest and the smallest four-digit number.

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17. Form the greatest and the smallest four-digit number using the digits 9, 3, 8, and 1 without repetition, such that 1 is at the third place of the number.

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18. Arrange the following numbers in descending order :

39124, 376319, 92187, 374534

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19. Write the following numbers in words and answer the questions given below.

432079, 5601729 and 1794805

Which is the smallest number?

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20. Write the following numbers in words and answer the questions given below.

432079, 5601729 and 1794805

Which is the largest number?

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21. Write four different numbers using the digits 1, 2, 5, 0, each with seven digits.

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22. The difference of the place values of two 4's in

4324 ?

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23. The difference between the face values of two

4's in 24348 is ?

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24. In the number 38417, identify

the place value of 8,

25. In the number 38417, identify

the value of the digit 3.

26. Find the difference between 18230 and 9108.

27. Find the product of 66 and 25 and subtract this from the smallest 5-digit number.

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28. Calculate 218×57.

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29. Calculate $400 \div 16$.

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30. Divide 24 balloons among 6 children.

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31. In a school of 3520 students, 1928 are boys. How many students in the school are girls?

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32. A test paper has 40 questions. Each question that is answered correctly is given 2 marks. Azar

answered 37 questions correctly. How many marks did Azar score in the test?

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33. Estimate 19378 to the nearest.

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34. Estimate 165124 to the nearest.

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35. Estimate the sum of.

1463 + 1989

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36. Estimate the sum of.

4176 + 947

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37. Estimate the sum of.

730 + 9918

38. Estimate the difference.

7961 - 341

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39. Estimate the difference.

8417 - 2499

▶ Watch Video Solution

40. Estimate the sum of.

5060 + 4068

▶ Watch Video Solution

41. Estimate the sum of.

10863 + 4759 + 3175

▶ Watch Video Solution

42. Estimate the sum of .

48931 + 4834 + 1313

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43. Estimate: 6527 - 431.

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44. There are 12352 workers in an industry. If 6753 workers are male, what is the estimated number of females working in the industry?

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45. Estimate:

87×313

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46. Write Hindu-Arabic numerals for each of the following:

XCVIII

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47. Write Roman numeral for each of the following:

58

48. Write Roman numeral for each of the following:

42

49. Write Roman numeral for each of the following:

97

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50. Write Roman numeral for each of the following:

66

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51. $110011_{(2)}$ in decimal system is ?

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52. 56 in binary system is ?

▶ Watch Video Solution

53. Which of the following are meaningless?

IXX

▶ Watch Video Solution

54. Which of the following are meaningless?

IVC

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55. Which of the following are meaningless?

IC

▶ **Watch Video Solution**

56. Which of the following are meaningless?

LIL

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57. Which of the following are meaningless?

XCI

Watch Video Solution

58. Which of the following are meaningless?

LIV

Watch Video Solution

59. Which of the following are meaningless?

XLIV

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60. Which of the following are meaningless?

VVII

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61. Write all Roman numerals lying between

LXX and LXXV

62. Write all Roman numerals lying between

XC and XCV

63. Write the following Roman numerals is

descending order:

LXIII, XL, VII, XCVIII, XCI

64. Indicate the property for each of the following:

$$93 \times 1 = 93$$

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65. Indicate the property for each of the following:

$$47 + (9 + 11) = (47 + 9) + 11$$

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66. Indicate the property for each of the following:

$12 \times (7 \times 10) = (12 \times 7) \times 10$

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67. Find the sum, using the associative property of addition of whole numbers.

73 + 47 + 53

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68. Find the sum, using the associative property of addition of whole numbers.

351 + 98 + 102

69. Find the sum, using the associative property of addition of whole numbers.

63 + 137 + 56

70. Find the sum, using the associative property of addition of whole numbers.

723 + 56 + 44

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71. Find the sum, using the associative property of addition of whole numbers.

87 + 113 + 257

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72. Find the sum, using the associative property of addition of whole numbers.

45 + 118 + 82

73. Find the product, using the associative property of multiplication:

$4 \times 25 \times 36$

74. Find the product, using the associative property of multiplication:

$8 \times 25 \times 93$

75. Find the product, using the associative property of multiplication:

$975 \times 5 \times 40$

76. Find the product, using the associative property of multiplication:

$8 \times 125 \times 17$

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77. Meera cycles for 12 days, riding 8 km each day. Her friend Sunita cycles for 8 days, riding 12 km each day. Who cycles a longer distance?

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78. Rajdhani Express moves at a uniform speed of 97 km/hr. Find the distance it will cover in 43 hours.

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79. The annual fee charged from a student in a public school is Rs. 9,960. If there are 135 students in Class VI, find the total collection.

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80. At the time of Deepawali, a shopkeeper purchased 998 boxes of dry fruits each costing Rs. 157. How much money did he pay?

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81. Write opposite of the following:

Increase in weight

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82. Write opposite of the following:

30 km north

83. Write opposite of the following:

326 B.C.

84. Write opposite of the following:

Loss of Rs. 700

85. Write opposite of the following:

100 m above sea level.

86. Represent the following numbers as integers will apporpriate signs.

An aeroplanne is flying at a height two thousand metre above the ground.

87. Represent the following numbers as integers will apporpriate signs.

A submarine is moving at a depth, eight hundred metre below the sea level.

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88. Represent the following numbers as integers will apporpriate signs.

A deposit of rupees two hundred.

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89. Represent the following numbers as integers will apporpriate signs.

Withdrawal of rupees seven hundred.

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90. Represent the following numbers on a number line :

+ 5

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91. Represent the following numbers on a number line :

- 1

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92. Represent the following numbers on a number line :

- 6

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93. In each of the following pairs, which number is to the right of the other on the number line?

2, 9

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94. In each of the following pairs, which number is to the right of the other on the number line?

-3, -8

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95. In each of the following pairs, which number is to the right of the other on the number line?

0, -1

96. In each of the following pairs, which number is to the right of the other on the number line?

-11, 10

97. In each of the following pairs, which number is to the right of the other on the number line?

-6, 6

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98. In each of the following pairs, which number is to the right of the other on the number line?

1, -100

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99. Write all the integers between the given pairs (write them in the increasing order.)

0 and -7

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100. Write all the integers between the given pairs (write them in the increasing order.)

-4 and 4

▶ Watch Video Solution

101. Write all the integers between the given pairs (write them in the increasing order.)

-8 and -15

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102. Write all the integers between the given pairs (write them in the increasing order.)

-30 and -23

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103. Write four negative integers greater than -20.

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104. Write four negative integers less than -10.

▶ **Watch Video Solution**

105. For the following statements write True (T) or False (F). If the statement is false, correct the statement.

-8 is to the right of -10 on a number line.

106. For the following statements write True (T) or False (F). If the statement is false, correct the statement.

-100 is to the right of -50 on a number line.

107. For the following statements write True (T) or False (F). If the statement is false, correct the

statement.

Smallest negative integer is -1.

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108. For the following statements write True (T) or False (F). If the statement is false, correct the statement.

-26 is larger than -25.

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109. Draw a number line and answer the following:

Which number will we reach if we move 4 numbers to the right of -2.

110. Draw a number line and answer the following:

Which number will we reach if we move 5 numbers to the left of 1.

111. Draw a number line and answer the following:

If we are at -8 on the number line, in which direction should we move to reach -13 ?

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112. Draw a number line and answer the following:

If we are at -6 on the number line, in which direction should we move to reach -1 ?

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113. Solve the following.

4 + (+5)

114. Solve the following.

3 + (-4)

115. Evaluate -5 + (-3).

116. Simplify -3 + 7 + (-8).

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117. The temperature of a town is -14 $^\circ C$ at night. During the day, the temperature increases by 7 $^\circ C$. What is the temperature of the town during the day?

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118. Add without using number line :

11 + (-7)

119. Add without using number line :

(-13) + (+18)

120. Add without using number line :

(-10) + (+19)

121. Add without using number line :

(-250) + (+150)

122. Add without using number line :

(-380) + (-270)

123. Add without using number line :

(-217) + (-100)

124. Find the sum of:

137 and -354

125. Find the sum of:

-52 and 52

126. Find the sum of:

-312, 39 and 192

127. Find the sum of:

-50, -200 and 300.

128. Solve the following

7 - (+6)

129. Solve the following

- 8 - (-3)

130. Simplify $-8 - (+ 3) - (- 5)$.

131. A diver was diving 100 m below sea level. He went down 20 m and came up 35 m again. How far below sea level did he dive?

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132. Subtract :

35 - (20)

 ▶ **Watch Video Solution**

133. Subtract :

72 - (90)

▶ Watch Video Solution

134. Subtract :

(-15) - (-18)

▶ Watch Video Solution

135. Subtract :

(-20) - (13)

136. Subtract :

23 - (-12)

137. Subtract :

(-32) - (-40)

138. Fill in the blanks with $>$, $<$ or $=$ sign :

$(-3) + (-6)$ _____ $(-3) - (-6)$

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139. Fill in the blanks with $>$, $<$ or $=$ sign :

$(-21) - (-10)$ _____ $(-31) + (-11)$

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140. Fill in the blanks with $>$, $<$ or $=$ sign :

$(45) - (-11)$ _____ $57 + (-4)$.

141. Fill in the blanks with $>$, $<$ or = sign :

$(-25) - (-42)$ _____ $(-42) - (-25).$

142. Fill in the blanks:

(-8) + _____ = 0

143. Fill in the blanks:

13 + _____ = 0

144. Fill in the blanks:

12 + (-12) = _____

145. Fill in the blanks:

(-4) + _____ = -12

146. Fill in the blanks:

_____ - 15 = -10

147. Find the value of :

$$(- 7) - 8 - (- 25)$$

148. Find the value of :

$$(-13) + 32 - 8 - 1$$

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149. Find the value of :

$$(-7) + (-8) + (-90)$$

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150. Find the value of :

$$50 - (-40) - (-2)$$

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Conceptive Worksheet

1. Write the greatest 6-digit number. Also write its successor.

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2. Write the smallest 7-digit number. Also write its predecessor.

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3. Write the greatest number:

3255, 53215, 97501

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4. Write the greatest number:

98135, 732156, 59321

▶ Watch Video Solution

5. Write the greatest number:

56100, 100000, 88253

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6. Write the greatest number:

36345, 63354, 36354

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7. Write the smallest number:

9212, 3921, 4456, 87123

8. Write the smallest number:

18341, 110001, 2333, 75284

9. Write the smallest number:

19024, 19240, 90421, 10249

10. Arrange the following numbers in ascending order:

4536, 4425, 4370, 4928

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11. Arrange the following numbers in ascending order:

25068, 25245, 25270, 25510

▶ **Watch Video Solution**

12. Arrange the following numbers in ascending order:

68952, 69825, 52896, 28956

▶ **Watch Video Solution**

13. Arrange the following numbers in descending order:

7508, 78501, 10378, 8570

▶ **Watch Video Solution**

14. Arrange the following numbers in descending order:

23450, 45032, 30254, 52430

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15. Use the given digits (without repetition) and make the greatest and the smallest 4-digit numbers:

1, 3, 7, 5

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16. Use the given digits (without repetition) and make the greatest and the smallest 4-digit numbers:

2, 7, 9, 3

▶ **Watch Video Solution**

17. Use the given digits (without repetition) and make the greatest and the smallest 4-digit numbers:

5, 6, 1, 0

▶ **Watch Video Solution**

18. Use the given digits (without repetition) and make the greatest and the smallest 4-digit numbers:

5, 4, 0, 7

19. Write the greatest and the smallest 5-digit numbers, using the digits (digits may repeat):

2 and 6

20. Write the greatest and the smallest 5-digit numbers, using the digits (digits may repeat):

1, 3 and 7

21. Write the greatest and the smallest 5-digit numbers, using the digits (digits may repeat):

2, 6, 4 and 8

22. Write the greatest and the smallest 5-digit numbers, using the digits (digits may repeat):

3, 0, 5 and 7

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23. Write the smallest 7-digit number, using any five different digits.

▶ **Watch Video Solution**

24. Write the greatest 6-digit number, using any four different digits.

▶ **Watch Video Solution**

25. What is the place value of 3 in each of the following numbers?

375

▶ **Watch Video Solution**

26. What is the place value of 3 in each of the following number?

2735

▶ **Watch Video Solution**

27. What is the place value of 3 in each of the following number?

72953

▶ **Watch Video Solution**

28. What is the place value of 3 in each of the following number?

13707

▶ **Watch Video Solution**

29. What is the place value of 3 in each of the following numbers?

370179

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30. Write the expanded form of each of the following numbers:

2103

▶ **Watch Video Solution**

31. Write the expanded form of each of the following numbers:

75132

▶ **Watch Video Solution**

32. Write the expanded form of each of the following numbers:

107912

▶ **Watch Video Solution**

33. Write the expanded form of each of the following numbers:

317956

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34. Insert commas to separate the periods in the Indian System of Numeration. Write and read each number:

47529311

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35. Insert commas to separate the periods in the Indian System of Numeration. Write and read each number:

94381052

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36. Insert commas to separate the periods in the Indian System of Numeration. Write and read each number:

708356149

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37. Insert commas to separate the periods in the Indian System of Numeration. Write and read each number:

5530088

38. Insert commas to separate the periods in the International System of Numeration. Write and read each number.

1974522

39. Insert commas to separate the periods in the International System of Numeration. Write and read each number.

30706210

40. Insert commas to separate the periods in the International System of Numeration. Write and read each number.

42358761

41. Insert commas to separate the periods in the International System of Numeration. Write and

read each number.

2795814

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42. Write the following numbers in words:

6,00,87,971

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43. Write the following numbers in words:

36,20,00,804

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44. Write the following numbers in words:

40,55,01,000

▶ Watch Video Solution

45. Write the following numbers in words:

2,95,25,666

▶ Watch Video Solution

46. Write the following numbers in words:

7,25,35,469

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47. Write the following numbers in words:

83,17,29,614

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48. Write the following numbers in words:

7,071,071

49. Write the following numbers in words:

36,754,981

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50. Write the following numbers in words:

23,064,594

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51. Write the following numbers in words:

90,090,090

52. Write the following numbers in words:

254,789,610

53. Write the following numbers in words:

685,321,479

54. Write each of the following numbers in figures:

Twenty crore, twenty-nine lac, seven hundred seventeen.

55. Write each of the following numbers in figures:

Eight crore, thirteen lac, forty thousand, twelve

56. Write each of the following numbers in figures:

Nineteen crore, ninety lac, fourteen thousand, six hundred eighty.

57. Write each of the following numbers in figures:

Fifty crore, forty lac, sixty thousand, nine.

58. Write each of the following numbers in figures:

Seven crore, twenty three lac, eighty-six thousand, five hundred ninety four.

59. Write each of the following numbers in figures:

Six million, three hundred fifty-two thousand, nine hundred forty-six.

60. Write each of the following numbers in figures:

Forty-nine million, seven hundred eighty-two thousand, fifty-eight.

61. Write each of the following numbers in figures:

Ninety million, nine

62. Write each of the following numbers in figures:

Twenty million, three hundred eightly thousand, one hundred.

63. Write each of the following numbers in figures:

Eight-one million, four hundred twelve thousand, six hundred fifty.

64. Subtract and verify the answers using the addition fact:

2458 - 322

65. Subtract and verify the answers using the addition fact:

1000 - 0

66. Subtract and verify the answers using the addition fact:

9999 - 9999

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67. Subtract and verify the answers using the addition fact:

78 - 34

> ▶ **Watch Video Solution**

68. Subtract and verify the answers using the addition fact:

6736 - 369

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69. Subtract and verify the answers using the addition fact:

2273 - 1410

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70. Find:

32 + 46 - 12

71. Find:

75 + 38 - 15

72. Find:

48 - 28 + 76 + 24

73. Find:

46 + 91 - 46 - 91

74. Find:

754 - 54 + 154 - 254

75. Fill in the blanks:

$10 \times 10 \times$ _____ $= 100000$

76. Fill in the blanks:

$180 \times 0 =$ _____ $\times 180$

77. Fill in the blanks:

$0 \times 0 =$ _____

78. Fill in the blanks:

$42 \times 16 = 40 \times 16 +$ _____ $\times 16$

79. Fill in the blanks:

$56789 \times 1 =$ _____

80. Fill in the blanks:

$$7 \times 3 + 7 \times 2 = \underline{\hspace{2cm}} \times 5$$

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81. Solve the following using shortcut method.

$$336 \times 5$$

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82. Solve the following using shortcut method.

$$24 \times 25$$

83. Solve the following using shortcut method.

78×5

84. Solve the following using shortcut method.

7×125

85. Solve the following using shortcut method.

$65 \div 5$

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86. Solve the following using shortcut method.

$575 \div 25$

▶ **Watch Video Solution**

87. Solve the following using shortcut method.

$105 \div 5$

88. Solve the following using shortcut method.

$325 \div 25$

89. Fill in the blanks.

Divident	Quotient	Divisor	Remainder
__	10	24	12

90. Fill in the blanks.

Divident	Quotient	Divisor	Remainder
345	12	—	9

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91. Fill in the blanks.

Divident	Quotient	Divisor	Remainder
1235	—	102	11

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92. Fill in the blanks.

Divident	Quotient	Divisor	Remainder
—	36	36	20

93. Fill in the blanks.

Divident	Quotient	Divisor	Remainder
1648	12	137	—

94. A van can carry 12 pupils. How many vans would be required to carry 108 pupils?

95. Nalini has 15 tennis balls. She gives 7 tennis balls to her friend. Her father brings back another 5 tennis balls for her. How many tennis balls does she have now?

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96. Madan bought 20 boxes of pens. Each box contained 15 pens. The pens were equally distributed among 25 students. How many pens did each student receive?

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97. Calculate the annual salary of Raghu whose monthly salary is Rs. 2,700

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98. How many children can get 6 balloons each, if there are 36 balloons in all?

▶ Watch Video Solution

99. A gardener plants 5100 mango trees in 17 rows such that each row has the same number of trees. How many trees are there in each row?

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100. Round off 86152 to the nearet ten thousand

▶ **Watch Video Solution**

101. Round off 86152 to the nearet thousand

  ▶ **Watch Video Solution**

102. Round off 86152 to the nearet hundred

  ▶ **Watch Video Solution**

103. Round 248,982 to the nearest hundred.

  ▶ **Watch Video Solution**

104. Round each whole number to the given place.

632 to the nearest ten

▶ **Watch Video Solution**

105. Round each whole number to the given place.

394 to the nearest ten

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106. Round each whole number to the given place.

1096 to the nearest ten

107. Estimate the sum by rounding each number to the nearest ten.

29

35

42

$+16$

108. Estimate the sum by rounding each number to the nearest ten.

62

72

15

$+\,19$

109. Estimate the sum by rounding each number to the nearest ten.

$$123$$

$$138$$

$$+\,147$$

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110. Estimate the product:

$$45 \times 25$$

▶ Watch Video Solution

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111. Estimate the product:

$$46 \times 32$$

112. Estimate the product:

45×76

113. Estimate the product:

43×23

114. Estimate the product:

55×37

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115. Estimate the product:

45×93

▶ Watch Video Solution

116. Estimate the product:

415×26

117. Estimate the product:

113×87

118. Estimate the product:

215×83

119. Estimate the product:

415×237

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120. Estimate the product:

418×138

▶ Watch Video Solution

121. Estimate the product:

4965×102

122. Estimate the product:

4605×203

123. Write Roman numeral for:

17

124. Write Roman numeral for:

23

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125. Write Roman numeral for:

48

▶ **Watch Video Solution**

126. Write Roman numeral for:

75

127. Write Roman numeral for:

95

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128. Write Roman numeral for:

19

Watch Video Solution

129. Write Roman numeral for:

41

  ▶ **Watch Video Solution**

130. Write Roman numeral for:

93

  ▶ **Watch Video Solution**

131. Write Roman numeral for:

87

132. Write Roman numeral for:

64

133. Write Hindu-Arabic numeral for:

XXIV

134. Write Hindu-Arabic numeral for:

LXXI

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135. Write Hindu-Arabic numeral for:

XCI

 ▶ **Watch Video Solution**

136. Write Hindu-Arabic numeral for:

XLIX

137. Write Hindu-Arabic numeral for:

LXXV

138. Write Hindu-Arabic numeral for:

XCIX

139. Write Hindu-Arabic numeral for:

LXXXVI

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140. Write Hindu-Arabic numeral for:

LXI

▶ **Watch Video Solution**

141. Write Hindu-Arabic numerals for each of the following:

XLII

142. Write Hindu-Arabic numerals for each of the following:

XLIV

143. Write Hindu-Arabic numerals for each of the following:

LXVI

144. Write Hindu-Arabic numerals for each of the following:

XCVIII

145. Write Roman numeral for each of the following:

58

146. Write Roman numeral for each of the following:

42

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147. Write Roman numeral for each of the following:

97

▶ **Watch Video Solution**

148. Write Roman numeral for each of the following:

66

▶ **Watch Video Solution**

149. Compare the following, using $>$, $<$, $=$

XLII, XLIV

▶ **Watch Video Solution**

150. Compare the following, using $>$, $<$, $=$

LVII, LXVI

▶ **Watch Video Solution**

151. Compare the following, using $>$, $<$, $=$

XCVII, C

▶ **Watch Video Solution**

152. Compare the following, using $>$, $<$, $=$

LXXI, XLIX

153. Write any three natural numbers.

154. Write a whole numbers which is also a natural number.

155. Write a whole number which is not a natural number.

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156. Write the successor of:

19

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157. Write the successor of:

70

158. Write the successor of:

312

159. Write the successor of:

2019

160. Write the successor of:

13700

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161. Write the predecessor of:

37

▶ **Watch Video Solution**

162. Write the predecessor of:

219

163. Write the predecessor of:

703

164. Write the predecessor of:

1900

165. Write the predecessor of:

51376

▶ **Watch Video Solution**

166. In each of the following pairs of numbers, which is the smallest number?

317, 713

▶ **Watch Video Solution**

167. In each of the following pairs of numbers, which is the smallest number?

933, 9303

▶ **Watch Video Solution**

168. In each of the following pairs of numbers, which is the smallest number?

9907, 7091

▶ **Watch Video Solution**

169. In each of the following pairs of numbers, which is the smallest number?

98315, 8395

▶ **Watch Video Solution**

170. Which of the following statements are true (T) and which are false (F)?

Zero (0) is the smallest whole number.

▶ **Watch Video Solution**

171. Which of the following statements are true (T) and which are false (F)?

1 is the smallest natural number.

▶ **Watch Video Solution**

172. Which of the following statements are true (T) and which are false (F)?

All natural numbers are whole numbers.

▶ **Watch Video Solution**

173. Which of the following statements are true (T) and which are false (F)?

All whole numbers are natural numbers.

174. Which of the following statements are true (T) and which are false (F)?

There are infinite number of whole numbers.

175. Which of the following statements are true (T) and which are false (F)?

We cannot represent all whole numbers on the number line.

▶ **Watch Video Solution**

176. Which of the following statements are true (T) and which are false (F)?

The successor of 100 is 1000.

▶ **Watch Video Solution**

177. Which of the following statements are true (T) and which are false (F)?

The predecessor of 1000 is 999.

▶ **Watch Video Solution**

178. Which of the following statements are true (T) and which are false (F)?

Zero (0) is less than every whole number.

▶ **Watch Video Solution**

179. Fill in the blanks:

41 + 35 = _____ + 41

180. Fill in the blanks:

173 + 0 = _____

181. Fill in the blanks:

83 + 100 = 100 + _____

182. Fill in the blanks:

$$17 \times 25 \times = 25 \times \underline{}$$

183. Fill in the blanks:

$$17 \times 1 = \underline{}$$

184. Fill in the blanks:

$19 \times 101 = $ _____ $\times 19$

185. State whether true (T) or false (F):

17 - 11 = 11 - 17

186. State whether true (T) or false (F):

9 + 3 = 3 + 9

187. State whether true (T) or false (F):

29 - 0 = 0 - 29

188. State whether true (T) or false (F):

$$18 \times 1 = 1 \times 18$$

189. State whether true (T) or false (F):

`67 +31=31+67

 Watch Video Solution

190. State whether true (T) or false (F):

$$101 \times 11 = 11 \times 101$$

 Watch Video Solution

191. State whether true (T) or false (F):

$$(57 + 6) + 13 = 57 + (6 + 13)$$

192. State whether true (T) or false (F):

$$(17 - 3) - 2 = 71 - (3 - 2)$$

193. Find the whole number for which:

$$n \times n = n$$

194. Find the whole number for which:

$n - 7 = 5$

▶ **Watch Video Solution**

195. Using the distributive properties, simplify each of the following:

108×65

▶ **Watch Video Solution**

196. Using the distributive properties, simplify each of the following:

70×97

▶ **Watch Video Solution**

197. Using the distributive properties, simplify each of the following:

$65 \times 813 - 65 \times 13$

▶ **Watch Video Solution**

198. Which of the following statements are true (T) and which are false (F)?

The sum of two even natural numbers is an even number.

▶ Watch Video Solution

199. Which of the following statements are true (T) and which are false (F)?

The sum of two odd whole numbers is an even number.

▶ Watch Video Solution

200. Which of the following statements are true (T) and which are false (F)?

The sum of two whole numbers, one of which is odd and the other is even is an even number.

201. Which of the following statements are true (T) and which are false (F)?

There exists a natural number which when added to a given natural number gives that number.

202. Which of the following statements are true (T) and which are false (F)?

There exists a whole number which when added to a given whole number gives that number.

203. Which of the following statements are true (T) and which are false (F)?

If a, b, c are any three whole numbers then a + (b + c) = (b + a) + c.

204. Which of the following statements are true (T) and which are false (F)?

The sum of two whole numbers is always greater than their difference.

205. Which of the following statements are true (T) and which are false (F)?

The sum of two whole numbers is always less than their product.

206. Which of the following statements are true (T) and which are false (F)?

If the sum of two whole numbers is odd, then their difference is also odd.

207. Which of the following statements are true (T) and which are false (F)?

There does not exist any whole number p for which $p \div p = p$.

208. Which of the following statements are true (T) and which are false (F)?

There exists a whole number q such that $q \div q = q$.

209. Which of the following statements are true (T) and which are false (F)?

There are more than one whole numbers n such that $n \times n = n$

210. Which of the following statements are true (T) and which are false (F)?

Given two distinct non-zero whole numbers a and b, we have $a \div b = b \div a$.

211. Use integers to represent the following temperatures.

$18°C$ below freezing point ($0°C$)

212. Use integers to represent the following temperatures.

$18°C$ above freezing point ($0°(C)$)

213. Which integer is smaller, -2 or 3?

▶ **Watch Video Solution**

214. Which integer is greater -3 or -5?

▶ **Watch Video Solution**

215. Arrange the following integers in ascending order.

-5, 3, -2, 6, 2, 7, 0

▶ **Watch Video Solution**

216. Arrange the following integers in descending order.

3, -1, -2, 5, -8, -5

 ▶ **Watch Video Solution**

217. Determine the largest and the smallest integers from the following integers.

-12, 7, 8, 0, -9, 5, -10

 ▶ **Watch Video Solution**

218. Fill in the blanks in the sequence below.

-15, -10, ☐ , ☐ , ☐ , 10, 15

219. Use a positive or a negative number to denote each of the following.

(i) 18 m above sea level

(ii) 8 m below sea level

220. Use a positive or a negative number to denote each of the following.

(i) Profit of Rs. 188

(ii) Loss of Rs. 254

▶ **Watch Video Solution**

221. Use a positive or a negative number to denote each of the following.

(i) 15 km to the east

(ii) 30 km to the west

▶ **Watch Video Solution**

222. Find the answers of the following additions.

$(- 11) + (- 12)$

▶ Watch Video Solution

223. Find the answers of the following additions.

$(+ 10) + (+ 4)$

▶ Watch Video Solution

224. Find the answers of the following additions.

$$(- 32) + (- 25)$$

▶ Watch Video Solution

225. Find the answers of the following additions.

$$(+ 23) + (+ 40)$$

▶ Watch Video Solution

226. Find the solution of the following:

$$(- 7) + (+ 8)$$

227. Find the solution of the following:

$$(- 9) + (+ 13)$$

228. Find the solution of the following:

$$(+ 7) + (- 10)$$

229. Find the solution of the following:

$(+ 12) + (- 7)$

230. Find the solution of the following additions using a number line.

$(- 2) + 6$

231. Find the solution of the following additions using a number line.

$(-6) + 2.$

▶ Watch Video Solution

232. Find the solution of the following without using number line:

$(+7) + (-11)$

▶ Watch Video Solution

233. Find the solution of the following without using number line:

$(- 13) + (+ 10)$

234. Find the solution of the following without using number line:

$(- 7) + (+ 9)$

235. Find the solution of the following without using number line:

$(+ 10) + (- 5)$.

▶ Watch Video Solution

236. Using the number line write the integer which is :

3 more than 5

▶ Watch Video Solution

237. Using the number line write the integer which is :

5 more than -5

▶ **Watch Video Solution**

238. Using the number line write the integer which is :

6 less than 2

▶ **Watch Video Solution**

239. Using the number line write the integer which is :

3 less than -2.

▶ **Watch Video Solution**

240. Use number line and add the following integers:

$9 + (- 6)$

▶ **Watch Video Solution**

241. Use number line and add the following integers:

$5 + (- 11)$

▶ **Watch Video Solution**

242. Use number line and add the following integers:

$(- 1) + (- 7)$

▶ **Watch Video Solution**

243. Use number line and add the following integers:

$(- 5) + 10$

▶ Watch Video Solution

244. Fill in the blanks :

-9 + ………… = 0

▶ Watch Video Solution

245. Fill in the blanks :

16 + (-16) = ...

▶ Watch Video Solution

246. Fill in the blanks :

-264 + ... = -364

▶ Watch Video Solution

247. Fill in the blanks :

-9 + ... = -17

248. Fill in the blanks :

…………… + 315 = -74

249. Which of the following statements are true ?

$$-14 > -8 - (-7)$$

250. Which of the following statements are true ?

$$-5 - (-2) > -8.$$

▶ Watch Video Solution

251. Which of the following statements are true ?

The sum of two integers is always an integer.

▶ Watch Video Solution

252. Which of the following statements are true ?

The difference of two integers is always an

integer.

253. Subtract the first integer from the second in each of the following :

18, -34

254. Subtract the first integer from the second in each of the following :

-15, 25

255. Subtract the first integer from the second in each of the following :

-28, -42

256. Subtract the first integer from the second in each of the following :

+68, -37

257. Subtract the first integer from the second in each of the following :

219, 0

▶ **Watch Video Solution**

258. Subtract the first integer from the second in each of the following :

-92, 0

▶ **Watch Video Solution**

259. Subtract the first integer from the second in each of the following :

-135, -250

 Watch Video Solution

260. Subtract the first integer from the second in each of the following :

-2768, -287

 Watch Video Solution

261. Subtract the first integer from the second in each of the following :

-3012, 6250

> ▶ **Watch Video Solution**

262. Subtract -3 from 8. Are the two results the same?

> ▶ **Watch Video Solution**

263. Find the value of:

$$-12 + (-98) - (-84) + (-7)$$

▶ Watch Video Solution

264. p and q are two integers such that p is the successor of q. Find the value of p - q.

▶ Watch Video Solution

265. Find the value of :

$$-19 - (-16)$$

266. Find the value of :

$$-6 - 3 - (-18)$$

267. Find the value of :

$$(3 - 5) + (3 - 5)$$

268. Find the value of :

$$-17 + 36 - 18 - 1$$

▶ **Watch Video Solution**

269. Find the value of :

$$60 + (-58) - (-4)$$

▶ **Watch Video Solution**

270. Find the value of :

$$-5 + (-6) + (-80).$$

Summative Worksheet

1. Which digit in the number 568 731 has a place value of thousands?

    A. 8

    B. 7

    C. 6

    D. 5

Answer:

> ▶ **Watch Video Solution**

2. Digit 4 in the number 14 512 represents

A. 4 units

B. 4 tens

C. 4 hundeds

D. 4 thousands

Answer:

3. 20 985 rounded off to the nearest ten is

A. 20 000

B. 20 900

C. 20 990

D. 21 000

Answer:

4. Which of the following, when rounded off to the nearest thousand, is 38 000?

A. 38400

B. 38500

C. 38600

D. 38700

Answer:

▶ Watch Video Solution

5. 587 315 is written as 590 000 aftere it has been rounded off to

    A. the nearest ten

    B. the nearest hundred

    C. the nearest thousand

    D. the nearest ten thousand

Answer:

▶ **Watch Video Solution**

6. 1,384 + 5,580 + 47,218 =

A. 54182

B. 54178

C. 51184

D. 51178

Answer:

▶ **Watch Video Solution**

7. The sum of which of the following is the smallest?

    A. 923 + 456

    B. 701 + 632

    C. 602 + 788

    D. 513 + 998

Answer:

▶ Watch Video Solution

8.

$83, 102 = 80, 000 + 3, 000 +$ _____ $+$ _____ $+ 2$

A. 1000, 100

B. 1000, 10

C. 1000, 10

D. 100, 0

Answer:

▶ Watch Video Solution

9. A basket of apples weigh 500 g. If Kaveri bought 7 baskets of apples, how much would they weigh?

A. 3,500 kg

B. 350 kg

C. 35 kg

D. 3.5 kg

Answer:

▶ **Watch Video Solution**

10. Universal Tuition Centre has 1,070 students. Of these, 598 are boys. How many students in the centre are girls?

A. 1668

B. 488

C. 472

D. 462

Answer:

▶ Watch Video Solution

11. 2,493 - 276 =

A. 2769

B. 2627

C. 2227

D. 2217

Answer:

▶ **Watch Video Solution**

12. 371 503 - 281 498 =

A. 91, 005

B. 90905

C. 90095

D. 90005

Answer:

13. 209 - 21 - 69 =

A. 119

B. 109

C. 99

D. 89

Answer:

▶ **Watch Video Solution**

14. Shyam earns Rs. 3,500. If he spent Rs. 1,249 on buying a handphone, what is the balance his salary?

A. Rs. 2,751

B. Rs. 2,251

C. Rs. 2,151

D. Rs. 2,059

Answer:

▶ **Watch Video Solution**

15. The integer - 18 is read as

A. minus 18

B. negative 18

C. subtract 18

D. negative 18 units

Answer:

▶ **Watch Video Solution**

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16. A glass of water is at its freezing point of $0 \, ^\circ C$

. When salt is added, its temperature drops to 5

$^\circ C$ below zero. What is the temperature of the
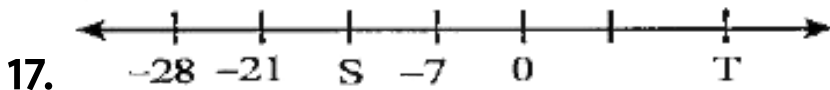
water?

A. $5 \, ^\circ C$

B. $+5 \quad °C$

C. $-5 \quad °C$

D. $5 °C$ below zero

Answer:

▶ **Watch Video Solution**

17.

$-28 \ -21 \quad$ S $\ -7 \quad 0 \qquad$ T

The integers represented by S and T on the above

number line are:

A.
$$\begin{array}{cc} S & T \\ -14 & 7 \end{array}$$

B. $\begin{array}{cc} S & T \\ -14 & 2 \end{array}$

C. $\begin{array}{cc} S & T \\ -8 & 14 \end{array}$

D. $\begin{array}{cc} S & T \\ -14 & 14 \end{array}$

Answer:

▶ **Watch Video Solution**

18. Which of the following is incorrect?

A. $4 > 0$

B. $5 < -3$

C. $7 > -3$

D. $8 < 9$

Answer:

▶ **Watch Video Solution**

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19. Which of the following integers has the greatest value?

A. -11

B. -10

C. -9

D. -8

Answer:

20. If +8 means 8 units forward, then -8 means 8 units

    A. forward

    B. to the right

    C. backward

    D. to the left

Answer:

21. If a profit of Rs. 2180 is written as +Rs. 2180, then a loss of Rs. 2180 should be written as

A. Rs. 0

B. Rs. 180

C. Rs. -2180

D. − Rs. 2180

Answer:

22. Draw a number line and represent each of the

following on it :

$9 + (- 6)$

23. Draw a number line and represent each of the

following on it :

$(- 3) + 7$

24. Draw a number line and represent each of the following on it :

$$8 + (- 8)$$

▶ **Watch Video Solution**

25. Draw a number line and represent each of the following on it :

$$3 + (- 2) + (- 4)$$

▶ **Watch Video Solution**

26. Draw a number line and represent each of the following on it :

$(- 1) + (- 2) + (- 3)$

27. Draw a number line and represent each of the following on it :

$5 + (- 2) + (- 6)$

28. Add the integers in each of the following :

-365, -87

▶ **Watch Video Solution**

29. Add the integers in each of the following :

1001, -13

▶ **Watch Video Solution**

30. Add the integers in each of the following :

-3057, 199

31. Add the integers in each of the following :

-36, +1027

32. Add the integers in each of the following :

-389, -1032

33. Add the integers in each of the following :

-36, 100

▶ **Watch Video Solution**

34. Add the integers in each of the following :

-313, 39, 192

▶ **Watch Video Solution**

35. Add the integers in each of the following :

-51, -203, 36, -28

36. Add the integers in each of the following :

3002, -888

37. Add the integers in each of the following :

-18, 25, -37

38. Find the sum :

$$(- 7) + (- 9) + 4 + (- 10)$$

39. Find the sum :

$$37 + (- 23) - (- 65) + (- 8)$$

40. Find the sum :

$$(- 147) + 79 + (- 265) + (- 39)$$

41. Find the sum :

$056 + (- 798) + (- 38) + 56.$

42. Let us invent an operation $*$ for integers such that for two integers a and b.

$a^*b = a + b + (- 2a)$ Determine

$(- 4)^*5$

43. Let us invent an operation $*$ for integers such that for two integers a and b.

$a^*b = a + b + (- 2a)$ Determine

$5^*(- 2).$

▶ **Watch Video Solution**

44. Which of the following statements are true ?

Zero is a negative integer.

▶ **Watch Video Solution**

45. Which of the following statements are true ?

0 + 0 = 0

▶ **Watch Video Solution**

46. Which of the following statements are true ?

0 is the smallest integer.

▶ **Watch Video Solution**

47. Which of the following statements are true ?

The successor - 61 is - 62.

48. Which of the following statements are true ?

Sum of 3 different integers is always zero.

49. Which of the following statements are true ?

The predecessor of -200 is -201.

50. The sum of two integers is -337. If one of them is 250, find the other.

51. A place is 37 m above sea level and another is 35 m, below sea level. What is the difference of level between the two places ?

52. The sum of two integers is -639. If one of them is 529, find the other.

53. Find the difference of the sum of odd numbers and sum of even numbers between 10 and 20.

54. Subtract the sum of -8 and -28 from the sum of -13 and 31.

Hots Worksheet

1. Add the following :

The smallest four-digit whole number, the greatest three-digit whole number and the smallest five-digit whole number.

2. Write all the possible three-digit numbers using the digits 6, 8, 0 and add them.

▶ **Watch Video Solution**

3. Write and add three consecutive numbers from 96,778.

▶ **Watch Video Solution**

4. There are 12,000 men, 11,789 women annd 1,700 children in a village. Find the population of the

village.

5. Kishore had Rs. 32,840. He deposited Rs. 17000 in a savings ban account and Rs. 2,500 in a fixed deposit account in a bank. How much money was left with him?

6. The cost of a wet-grinder is Rs. 3,755. The costs of a fruit-juicer is Rs. 1,250 less than that of the

wet-grinder. Find the total cost of the wet-grinder and the fruit juicer.

7. A 29-inch colour TV set costs Rs. 32,565 and a 21 inch model costs Rs. 18,675. How much more does the bigger TV set cost?

8. Do as directed:

Divide 120 by the product of 4 and 3.

9. Do as directed:

Add the greatest two digit-number to the difference of 14 and 3.

10. Do as directed:

Subtract product of 61 and 17 from 1,685

11. Do as directed:

Multiply 715 by 20 and divide by 25

> ▶ Watch Video Solution

12. The first Class fare from Chennai to Coimbatore is Rs. 557 and the sleeper class fare is Rs. 165. How much would a family of 4 members save by choosing to travel by sleeper class?

> ▶ Watch Video Solution

13. A day consists of 24 hours. How many hours will there be in the year 2005 and 2008 and find the difference between them?

14. The stock market average fell 317 points in one day. Represent this quantity by an integer.

15. The lowest elevation in India is found at Nilgir Valley at an elevation of 282 feet below sea level. Represent this elevation with an integer.

▶ **Watch Video Solution**

16. The temperature on one January day in Delhi was - 10 degrees Celsius. Tell whether this temperature is cooler or warmer than - 5 degrees Celsius.

▶ **Watch Video Solution**

17. The temperature at 4 P.M. on February 2nd was $-10°$ Celsius. By 11 P.M. the temperature had risen 12 degrees. Find the temperature at 11 P.M.

▶ **Watch Video Solution**

18. Arun has Rs. 125 in his saving account. He writes a cheque for Rs. 117, makes a deposit of Rs. 45, and then write another cheque for Rs. 69. Find the amount left in his account. (Write the amount as an integer).

▶ **Watch Video Solution**

19. In a test, it is possible to have a negative score. If Krishna's score is 15, what is his new score if he loses 20 points?

▶ **Watch Video Solution**

20. A mountain peak in Himalayas has an elevation of 14,393 feet above sea level. A deep-sea trench in the Pacific Ocean has an elevation of 12, 456 feet below sea level. Find the difference in elevation between these two points.

▶ **Watch Video Solution**

Iit Jee Worksheet

1. 2,493 - 276 =

A. 2769

B. 2627

C. 2227

D. 2217

Answer:

2. 371 503 - 281 498 =

    A. 91005

    B. 90905

    C. 90095

    D. 90005

Answer:

▶ Watch Video Solution

3. Which of the following has the largest value?

A. 32,457 + 42,864

B. 33,247 + 41,684

C. 32,574 + 42,684

D. 33,427 + 41,864

Answer:

▶ **Watch Video Solution**

4. 209 - 21 - 69 =

A. 119

B. 109

C. 99

D. 89

Answer:

▶ **Watch Video Solution**

5. Shyam earns Rs. 3,500. If he spent Rs. 1,249 on buying a handphone, what is the balance his salary?

A. Rs. 2,751

B. Rs. 2,251

C. Rs. 2,151

D. Rs. 2,059

Answer:

▶ **Watch Video Solution**

6. Smriti bought 19 boxes of sweets. Each box contains 228 sweets. How many sweets would be left with her after giving 519 sweets to friends?

A. 766

B. 3813

C. 4332

D. 4851

Answer:

▶ **Watch Video Solution**

7. $4,668 \div 4 =$

A. 1267

B. 1167

C. 1087

D. 1012

Answer:

 Watch Video Solution

8. $8,158 \div 32 =$

A. 254 remainder 30

B. 242 remainder 30

C. 204 remainder 15

D. 202 remainder 15

Answer:

▶ **Watch Video Solution**

9. The company divided 15,484 workers equally into 98 groups. How many workers were there in each group?

A. 178

B. 168

C. 158

D. 148

Answer:

▶ **Watch Video Solution**

10. Which of the following is true?

A. $130 \div 0 = 0$

B. $150 \div 1 = 50$

C. $0 \times 130 = 0$

D. $150 \div 1 = 151$

Answer:

11. If $-30 + (-y) + 20 = 0$, then the value of y is

A. 20

B. 10

C. -10

D. -20

Answer:

▶ **Watch Video Solution**

12. $-40 - 32 + 40 =$

A. -80

B. -32

C. 32

D. 80

Answer:

▶ Watch Video Solution

13. $0 - (- 3) - (- 4) =$

A. -7

B. -1

C. 1

D. 7

Answer:

14. $-8 - (-3) - (-5) =$

A. 16

B. 6

C. 0

D. -16

Answer:

▶ **Watch Video Solution**

15. $-10 - (-2) - 3 =$

A. -10

B. -11

C. -12

D. -15

Answer:

▶ **Watch Video Solution**

16. If the temperature of City A is -20 $^\circ C$ and the temperature of City B is 10 $^\circ C$, the difference in temperature between the two cities is

A. -30 $^\circ C$

B. -10 $^\circ C$

C. 10 $^\circ C$

D. 30 $^\circ C$

Answer:

▶ **Watch Video Solution**

17. $-40 + (- 5) + (- 3) =$
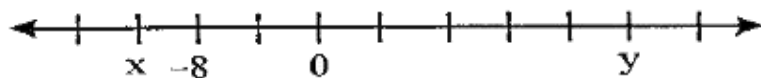
A. -48

B. -32

C. 32

D. 48

Answer:

▶ **Watch Video Solution**

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18. The diagram shows a number line.

The value of x + y is

A. -32

B. -8

C. 8

D. 32

Answer:

▶ **Watch Video Solution**

19. A lady parked her car on the 6th floor and took a lift up 17 floors to the Finance Department she then went down 9 floors to the Tax department. On which floor would you find the lady?

A. 14th

B. 15th

C. 23rd

D. 26th

Answer:

▶ **Watch Video Solution**

20. A set of whole numbers satisfy _____ property/properties under multiplicative

A. closed

B. commutative

C. associative

D. none

Answer:

▶ **Watch Video Solution**

21. Which of the following would give the value zero?

A. $30 \div 0$

B. 30×0

C. $0 \div 30$

D. $0 \div 0$

Answer:

22. Which of the following sequence of operations are true, to simplify the combination of operations that involve addition (A), Subtraction (S), Multiplication (M) and Division (D).

A. M - A - S

B. M - A - D

C. D - M - A

D. S - A - M

Answer:

▶ **Watch Video Solution**

23. Integer greater than -151 :

A. -141

B. -120

C. -251

D. -111

Answer:

24. $-4 \times -3 \times 5$ is equal to:

A. $-4 \times (-3 \times 5)$

B. $-4 \times (-3 + 5)$

C. $(-4 \times 3) \times (-4 \times 5)$

D. $(- 4 \times - 3) \times 5$

Answer:

25. $(- 2) \times (- 2) \times (- 2) \times (- 2) \times (- 2)$

is:

A. 32

B. $(- 2)^5$

C. (-32)

D. $(2)^5$

Answer:

26. Compare: (-15) and (-16)

A. $(-15) = (-16)$

B. $(-15) > (-16)$

C. $(-16) < (-15)$

D. none of these

Answer:

27. $244 + (8 \times 4) - 318 \div a = 223$. The value of

a is _____.

28. $100 - 7 \times 1 + 5 = 100 - (7 \times 1) + a$. The

value of a is _____.

29. Which digit in the number 568 831 has a place value of thousands?

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30. In the number 14,512 represents, the number in thousands place is _____.

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31. Fill in the misssing integer: $6 + \square = 0$

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32. $6 - (-3) = $ _____

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