MATHS

BOOKS - RD SHARMA MATHS (HINGLISH)

NEGATIVE NUMBERS AND INTEGERS

All Questions

1. Using the number line, write the integer which is: 4 more than 3 (ii) 5 less than 2 (iii)8 more than -9 (iv) 4 less than -3

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2. Which number in each of the following pairs is smaller? $8,\ -8$ (ii) $0,\ -12$ (iii) $-15,\ -5$ (iv) $318,\ -356$

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3. Write the absolute value of each of the following: 12 (ii) -32 (iii) 0

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4. Write the absolute value of each of the following: (i)$a-3$, if a is greater than 3 (ii) a-5, if a is less than 5

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5. Write the opposite of each of the following: (i) Increase in population (ii) Depositing money in a bank (iii)Earning money (iv) Going Norht

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6. Write the opposite of each of the following: (i) Gaining a weight of 4kg (ii) A loss of Rs. 1000 (iii) 25 (iv) -15

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7. Indicate the following by using integers: (i) 25^0 above zero (ii) 5^0 below zero (iii) A profit of Rs. 800 (iv) A deposit of Rs. 2500

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8. Indicate the following by using integers: (i) 3km above sea level (ii) 2 km below sea level

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9. Mark the following integers on a number line: (i) 7 (ii) -4 (iii) 0

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10. Which number in each of the following pairs is smaller? (i) $0, \quad -4$ (ii) $-3, \ 12$ (iii) $8, \ 13$ (iv) $-15, \quad -27$

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11. Which number in each of the following pairs is larger? (i) $3, \quad -4$ (ii) $-12, \quad -8$ (iii) 0, 7 (iv) $12, \quad -18$

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12. Write all integers between: (i) $-7 \ and \ 3$ (ii) $-2 \ \text{and} \ \ 2$ (iii) $-4 \ and \ 0$ (iv) 0 and 3

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13. How many integers are between? (i) $-4\ and\ 3$ (ii) 5 and 12 (iii) $-9\ and\ -2$ (iv) 0 and 5

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14. Replace * in each of the following by $<\ >$ so that the statement is true: (i) $2\ *\ 5$ (ii) $0\ *\ 3$ (iii) $0\cdot\ -7$ (iv) $-18\cdot 15$ (v) $-235\cdot\ -532$ (vi) $-20\cdot 20$

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15. Write the following integers in decreasing order: (i) $-15,\ 0,\ -2,\ -9,\ 7,\ 6,\ -5,\ 8$ (ii) $-154,\ 123,\ -205,\ -89,\ -74$

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16. Using the number line, write the integer which is: (i) 2 more than 3 (ii) 5 less than 3 (iii) 4 more than -9

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17. Write the absolute value of each of the following: 14 (ii) -25 (iii) 0 (iv) -125

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18. Write the absolute value of each of the following: (i) -248 (ii) $a-7$, if a is greater than 7 (iii) $a-7$, if $a-2$ is less than 7 (iv) a+4, if a is greater than -4

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19. Write the absolute value of each of the following: (i) $a+4$ if a is less than -4 (ii) $|-3|$ (iii) $-|-5|$ (iv) $|12-5|$

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20. (i) Write 4 negative integers less than -10 (ii) Write 6 negative integers just greater than -12

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21. Which of the following statements are true? (i) The smallest integer is zero (ii) The opposite of zero is zero (iii) Zero is not an integer (iv) 0 is larger than every negative integer. (v) The absolute value of an integer is greater than the integer. (vi)A positive integer is greater than its opposite (vii)Every negative integer is less than every natural number. (viii)0 is the smallest positive integer.

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22. Represent on the number line: $3 + 4$

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23. Represent on the number line: $-3 + 4$

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24. Represent on the number line: $4 + (-3)$

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25. Represent on the number line: $(-3) + (-4)$

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26. Add the integers: $1259 \; and \; 3214$

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27. Add the integers: $-5287\ and\ -2432$

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28. Add the integers : $-523\ and\ 937$

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29. Add the integers: $-4732\ and\ 3258$

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30. Simplify: $(-47352)+21943$

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31. Simplify: $94358 + (-76823)$

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

$5 + (-2)$ (ii) $(-9) + 4$

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

$(-3) + (-5)$ (ii) $6 + (-6)$

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

$(-1) + (-2) + 2$ (ii) $(-2) + 7 + (-9)$

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35. Find the sum of: $-557\ and\ 488$ (ii) $-522\ and\ -160$

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36. Find the sum of: $2567\ and\ -325$ (ii) $-10025\ and\ 139$

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37. Find the sum of: $2547\ and\ -2548$ (ii) $2884\ and\ -2884$

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38. Find the additive inverse of each of the following integers: 52 (ii) -176 (iii) 0 (iv) 1

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39. Find the successor of each of the following integers: -42 (ii) -1 (iii) 0

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40. Find the successor of each of the following integers: -200 (ii) -99

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41. Find the predecessor of each of the following integers: 0 (ii) 1 (iii) -1

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42. Find the predecessor of each of the following integers: -125 (ii) 1000

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43. Which of the following statements are true? (i) The sum of a number and its opposite is zero. (ii) The sum of two negative integers is a positive integer. (iii) The sum of a negative integer and a positive integer is always a negative integer. (iv) The successor of $-1\ is\ 1$. (v) The sum of three different integers can never be zero.

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44. Write all integers whose absolute values are less than 5.

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45. Which of the following is false: $|4+2=|4|+|2|$ (ii) $|2-4|=|2|+|4|$ (iii) $|4-2|=|4|-|2|$ (iv) $|(-2)+(-4)|=|-2|+|-4|$

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46. Find an integer x such that $x + 1 = 0$ (ii) $x + 5 = 0$

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47. Find an integer x such that $-3 + x = 0$ (ii) $x + (-8) = 0$

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48. Find an integer x such that $7 + x = 0$ (ii) $x + 0 = 0$

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49. Subtract: (i) 4 from 9 (ii) $-4\ from\ 7$ (iii)$3\ from\ -8$ (iv) $-9\ from\ -5$

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50. Subtract: $-1235\ om\ 4532$ (ii) $-789\ om\ -1253$

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51. Subtract: $3295 \ om \ -1247$ (ii) $-435 \ om \ 0$

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52. Find the value of: $412 + (-98) + (-84) + (-7) + 35$

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53. Find the value of: $-21 + (-9) + 63 + (-22) + (-228) + 137$

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54. Find the value of: $-17 - (-13)$

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55. Find the value of: $-7-8-(-25)$

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56. Find the value of: $50-(-48)-(-2)-110$

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57. Find the value of: $-12+(-98)-(-84)+(-7)$

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58. Find the value of: $-12-[(-15)+(-2)+\ -3]$

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59. Calculate : $1-2+3-4+5-6+7-8+\ +19-20$

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60. Calculate the sum: $2+(-2)+2+(-2)+2+(-2)+$ (i)if the number of terms is 140 (ii)if the number of terms is 125

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61. The sum of two integers is 48. If one of the integers is -24, determine the other.

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62. The sum of two integers is -396. If one of them is 64, determine the other.

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63. If is an operation on integers such that for integers $a \; and \; b$, $ab = a - b - (-2)$ Find the value of: $2 \;\; 3$ (ii) $(-3)(-4) \;\; 3 \;\; (-5)$ (iv) $(-4) \;\; 3$

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64. On a particular day, the temperature of Delhi at 10 a.m. was 13^0C but by the mid-night, it fell down to 6^0C . The temperature of Chennai at 10 a.m. the same day was 18^0C but fell down to 10^0C by the mid-night. Which fall is greater?

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65. Subtract the first integer from the second in each of the following: $12, \;\; -5$ (ii) $-12, \;\; 8$ (iii) $-225, \;\; -135$

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

$1001,\ 101$ (ii) $-812,\ 3126$ (ii) $7560,\ -8$

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

$-3978,\ -4109$ (ii) $0,\ -1005$

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68. Find the value of: $-27-(-23)$ (ii) $-17-18-(-35)$

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69. Find the value of: $-12-(-5)-(-125)+270$

$373+(-245)+(-373)+145+3000$

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70. Find the value of:

$1 + (- 475) + (- 475) + (- 475) + (- 475) + 1900$

$(- 1) + (- 304) + 304 + 304 + (- 304) + 1$

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71. Subtract the sum of $- 5020$ and 2320 from $- 709$

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72. Subtract the sum of $- 1250$ and 1138 from the sum of $1136\ and\ - 1272$

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73. From the sum of $233\ and\ - 147,$ subtract $- 284$

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74. The sum of two integers is 238. If one of the integers is -122, determine the other.

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75. The sum of two integers is -223 . If one of the integers is 172, find the other.

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76. Evaluate the following:

$-8-24+31-26-28+7+19-18-8+33$

$-26-20+33-(-33)+21+24-(-25)-26-14-34$

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77. Calculate: $1-2+3-4+5-6+\ldots+15-16$

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78. Calculate the sum: $5+(-5)+5+(-5)+$ if the number of terms is 10. if the number of terms is 11.

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79. Replace * by < or > in each of the following to make the statement true: $(-6)+(-9)\cdot(-6)-(-9)$ $(-12)-(-12)\cdot(-12)+(-12)$

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80. Replace * by < or > in each of the following to make the statement true: $(-20)-(-20)\cdot 20-(65)\ 28-(-10)\cdot(-16)-(-76)$

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81. If ?is an operation on integers such that $a?b = -a+b-(-2)$ for all integers $a,\ b$. Find the value of $4?3$ (ii) $(-2)?(-3)$ $6?(-5)$ (iv) $(-5)?6$

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82. If $a\ and\ b$ are two integers such that a is the predecessor of b. Find the value of $a-b$.

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83. If $a\ and\ b$ are two integers such that a is the successor of b. Find the value of $a-b$.

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84. Fill in the blanks: $-7+\ =0$ (ii) $29+\ =0$ $132+(-132)=$ (iv) $-14+\ =22-1256+\ =\ -742$ (iv) $-1234=\ -4539$

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85. Which of the following statement is true? (a)$-7\succ 5$ (b) $-7<\ -5$ $(-7)+(-5)>0$ (d) $(-7)-(-5)>0$

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86. 5 less than -2 is (a)3 (b) -3 (c) -7 (d) 7

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87. 6 more than -7 is 1 (b) -1 (c) 13 (d) -13

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88. If x is a positive integer, then $x+|x|=0$ (b) $x-|x|=0$ $x+|x|=-2x$ (d) $x=-1|x|$

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89. If x is a negative integer, then $x+|x|=0$ (b) $x-|x|=0$ $x+|x|=-2x$ (d) $x=-|x|$

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90. If x is a negative integer, then $x+|x|=0$ (b) $x-|x|=0$ $x+|x|=-2x$ (d) $x=-|x|$

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91. If x is greater than 2, then $|2-x|=2-x$ (b) $x-2$ (c) $2+x$ (d) $-x-2$

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92. $9+|-4|$ is equal to: 5 (b) -5 (c) 13 (d) -13

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93. $(-35)+(-32)$ is equal to 67 (b) -67 (c) -3 (d) 3

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94. $(-29)+5$ is equal to: 24 (b) 34 (c) -34 (d) -24

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95. $|-|-7|-3|$ is equal to -7 (b) 7 (c) 10 (d) -10

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96. The successor of -22 is -23 (b) -21 (c) 23 (d) 21

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97. The predecessor of -14 is -15 (b) 15 (c) 13 (d) -13

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98. If the sum of two integers is -26 and one of them is 14, then the other integer is (a)-12 (b) 12 (c) -40 (d) 40

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99. Which of the following pairs of integers have 5 as a difference? (a)10, 5 (b) $-10, \quad -5$ (c)$15, \quad -20$ (d) both (a) and (b)

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100. If the product of two integers is 72 and one of them is -9, then the other integer is (a) -8 (b) 8 (c) 81 (d) 63

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101. On subtracting -7 from -14, we get -21 (b) -7 (c) -14 (d) 21

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102. The largest number that divides 64 and 72 and leave the remainders 12 and 7 respectively, is 17 (b) 13 (c) 14 (d) 18

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103. The sum of two integers is -23. If one of them is 18, then the other is -14 (b) 14 (c) 41 (d) -41

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104. The sum of two integers is -35 . If one of them is 40, then the other is (a)5 (b) -75 (c) 75 (d) -5

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105. On subtracting -5 from 0, we get (a)-5 (b) 5 (c) 50 (d) 0

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106. $(-16)+14-(-13)$ is equal to: -11 (b) 12 (c) 11 (d) -15

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107. $(-2)x\ (-3)x\ 6\ x\ (-1)$ is equal to (a)36 (b) -36 (c) 6 (d) -6

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108. $86 + (-28) + 12 + (-34)$ is equal to: -36 (b) 40 (c) 36 (d) -40

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109. $(-2)x(-9) - 6x(-8)$ is equal to: (a) 156 (b) 60 (c) -156 (d) -60

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110. The successor of -79 is -80 (b) -78 (c) 80 (d) 78

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111. The predecessor of -99 is -98 (b) -100 (c) 98 (d) 100

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112. The integer 8 more than -12 is 4 (b) -4 (c) -20 (d) 20

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113. What should be added to 18 to get -34 52 (b) -52 (c) -16 (d) 16

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114. The additive inverse of 17 is -17 (b) 17 (c) $\frac{1}{17}$ (d) $-\frac{1}{17}$

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115. If an integer a is greater 7, then $|7-a| = 7-a$ (b) $a-7$ (c) $7+a$ (d) $-7-a$

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116. The additive identity element in the set of integers is (a)1 (b) -1 (c) 0 (d) none of these

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117. Which of the following pairs of integers have 9 as a difference? 19, 10 (b) $-19, \quad -10\ 19, \quad -10$ (d) (a) and (b) both

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118. When 47 is subtracted from $-23,$ we get 70 (b) 24 (c) -24 (d) -70

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119. If is an operation on integers such that $a\ b = a - b - 2,$ for all integers, $a,\ b$. Then, $7\ (-4) =$ 11 (b) -9 (c) 9 (d) 1

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120. Simplify: $(-145)+97+(-365)+(-71)+8$

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121. The sum of two integers is 84. If one of the integers is 44, determine the other.

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122. Simplify: $9\,x\,(-16)+\,(-17)x\,(-16)$

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123. If $x=(-23)+22+(-23)+22+.....(40terms)$ and $y=11+(-10)$

Then the value of $y-x$ is

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124. Calculate: $1-2+3-4+5=6+7-8+\ +49-50$.

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125. Evaluate: $7\ x\ |-15|-|-9|x\ 8$

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126. Find the value of $38-(-25)-58+(-15)+23-(-8)$

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127. Simplify: $5+(-5)+5+(-5)+$ When the number of terms is 20 when the number of terms is 25.

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128. If ? is an operation on integers such that for integers $a \, and \, b, a ? b = a - b - (- 5)$ Find the value of (i) $(- 7) ? 3$ (ii) $(- 9) ? (- 4)$ (iii)$2 ? 5$ (iv) $4 ? (- 5)$

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129. Evaluate: $- 36 - 40 + 43 - (- 29) + 18 - (- 74)$

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130. The largest negative integer is .....

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131. The smallest positive integer is .....

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132. $(-22)+21+(-22)+21+..20$ terms is equal .....

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133. $(-3)(-4)(12)(-1)=$ .....

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134. $(-1)(-1)(-1)(-1)=$ ....

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