doubtnut
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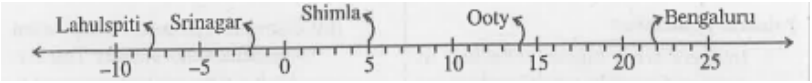
MATHS

BOOKS - SUBHASH PUBLICATION

INTEGERS

Example

1. Following number line shows the temperature in degree celsium $(^{\circ}C)$ at different places on a particular day. Observe this number line and write the temperature of the places marked on it.



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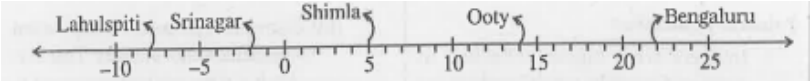
2. Following number line shows the temperature in degree celsium $(^{\circ}C)$ at different places on a particular day. What is the temperature difference between the hottest and the coldest places among the above?



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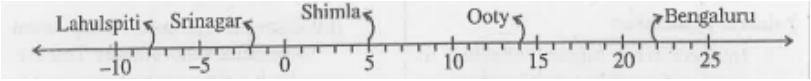
3. Following number line shows the temperature in degree celsium $(^{\circ}C)$at different places on a particular day. What is the temperature difference between Lahulspiti and Srinager?



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4. In a quiz, positive marks are given for correct answers and nagative marks are given for incorrect answers. If Jack's scores in five successive rounds were 25,-5,-10,15 and 10. What was his total at the end?

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5. At Sringar temperature was $-5^{\circ}C$ on Monday and then it dropped by $2^{\circ}C$ on Tuesday. What was the temperature of Srinagar on Tuesday? ON Wednesday it rose by $4^{\circ}C$. What was the temperature on this day.

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6. A plane is flying at the height of 5000m above the sea level. At a particular point, it is exactly above a submarine floating 1200m

below the sea level. When is the vertical distance between them?

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7. Mohan deposits Rs2,000 in his bank account and withdraws Rs1,642 from it the next day. If withdrawl of amount from the account is represented by a nagative integer, then how will you represent the amount deposited? Find the balance in Mohan's account after the withdrawal.

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8. Rita goes 20km towards east from a point A to the point B. From B, she moves 30km towards west along the same road. If the distance towards east in represented by a positive integer then, how will you represent the distance travelled towards west? By which integer will you represent her final position from A?

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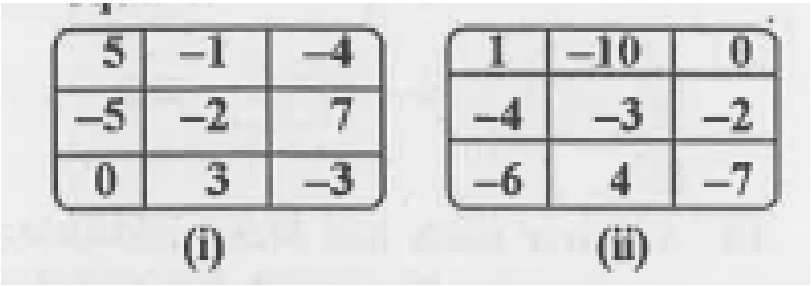
9. In a magic square each row, column and diagonal have the same sum, Check which of the following is a magic square.



5	−1	−4
−5	−2	7
0	3	−3

(i)

1	−10	0
−4	−3	−2
−6	4	−7

(ii)

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10. Verify a-(-b) = a+b for the following values of a and b. :- a=21, b=18

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11. Verify a-(-b) = a+b for the following values of a and b. :- a=118, b=125

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12. Verify a-(-b) = a+b for the following values of a and b. :- a=75, b=84

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13. Verify a-(-b) = a+b for the following values of a and b. :- a=28, b=11

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14. Use the sign of >,< or= in the box to make the statemetns true.

23−41+11 □ 23−41−11

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15. A water tank has steps inside it. A monkey is sittin on the topmost step (i.e.,the first step). The water level is at the ninth step. He jumps 3 steps down and then jumps back 2 setps up. In how many jumps will he reach the water level.

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16. A water tank has steps inside it. A monkey is sittin on the topmost step (i.e.,the first step). The water level is at the ninth step. After drinking water, he wants to go back. For this, he jumps 4 steps up and then jumps back 2 steps down in every move. In how many jumps will he reach back the top step?

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17. A water tank has steps inside it. A monkey is sittin on the topmost step (i.e.,the first step). The water level is at the ninth step. If the number of steps moved down is represented by negative integers and the numbe of step moved up by positive integers, represent his moves in par (i) and (ii) by completing the following: (a) -3+2... =-8 (b) 4-2+...=8. in (a) the sum (-8) represents going down by eight steps. So what will the sum 8 in (b) represent?

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18. Write down a pair of integers whose: Sum is -7.

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19. Write down a pair of integers whose: Difference is -10

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20. Write down a pair of integers whose: Sum is 0.

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21. Write a pair of negative integers whose difference giv es 8.

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22. Write a negative integer and a positive integer whose sum is -5.

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23. Write a negative integer and a positive integer whose differene is -3.

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24. In a quiz, team A scored -40,10,0 and team B scored 10,0,40 in three successive rounds. Which team scored more? Can we say that we can and integers in any order?

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25. Fill in the balnks to make the following statements true: (–5) + (–8) = (– 8) + (.....)

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26. Find the product of the following : $3 \times (-1)$

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27. Find each of the following productes: $(-21) \times (-30)$

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28. Find the product : $(-1) \times 225$

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29. Find the product: $(-316) \times (-1)$

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30. Find the product: $(-15) \times 0 \times (-18)$

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31. Find the product: $(-12) \times (-11) \times (10)$

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32. Find the product: $(-18) \times (-5) \times (-4)$

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33. Find the product: $(-1) \times (-2) \times (-3) \times 4$

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34. Find the product of: $(-3) \times (-6) \times (-2) \times (-1)$

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35. Verfiy the following: 18x [7 + $(-3)] = [18 \times 7] + [18 \times (-3)]$

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36. Verfiy the following:

$(-21) \times [(-4) + (-6)] = [(-21) \times (-4)] + [(-21) \times (-6)]$

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37. For any integer a, what is (-1) x a equal to ?

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38. Determine the integer whose product with (-1) is : -22

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39. Determine the integer whose product with (-1) is : - 37

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40. Determine the integer whose product with (-1) is : -0

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41. Starting from (-1) x 5, write various products showing some patterns to show $(-1) \times (-1) = 1$.

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42. Find the product using suitable properties: $26 \times (-48) + (-48) \times (-36)$

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43. Find the product using suitable properties: 8 x 53 x (-125)

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44. Find the product using suitable properties: 15 x (-25) x (-4) x (-10)

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45. Find the product using suitable properties: 15 x (-25) x (-4) x (-10)

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46. Find the product using suitable properties: (-41) x 102

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47. Find the product using suitable properties: 625 x (-35) + (-625) x 65

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48. Find the product using suitable properties: 7 x (50-2)

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49. Find the product using suitable properties: (-17) x (-29)

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50. Find the product using suitable properties: (-57) x (-19) +57

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51. A certain freezing prosess requires that room temperature be lowered from 40^oC at the rate of 5^oC every hour. What will be the room temperature 10 hours after the process begins?

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52. In a class test containing 10 question, 5 marks are awarded for every correct answer and (-2) marks are awarded for every incorrect answer and 0 for questins not attempted.:- Mohan gets four correct and six incrorrect answers. What his has score.

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53. In a class test containing 10 question, 5 marks are awarded for every correct answer and (-2) marks are awarded for every incorrect

answer and 0 for questins not attempted.:- Reshma gets five correct answers and five incorrect answers. What is her score?

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54. In a class test containing 10 question, 5 marks are awarded for every correct answer and (-2) marks are awarded for every incorrect answer and 0 for questins not attempted.:- Heena gets two correct and five incorrect answer out of seven questions she attempts. What is her score?

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55. A cement company earns a profit of 8 rs per bag of white cement sold and a loss of rs. 5 per bag of gray cement sold. The company sells 3,000 bags of white cement and 5,000 bags of grey cement in a month. What is its profit or loss?

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56. A cement company earns a profit of 8 rs per bag of white cement sold and a loss of rs. 5 per bag of gray cement sold. :- What is the number of white cement bags it must sell to have neither profit nor loss, if the number of grey bags sold is rs 6,400 bags.

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57. Replace the blank with an integer to make it a true statement.:-

$(-3) \times ____ = 27$

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58. Replace the blank with an integer to make it a true statement.:-

$5 \times ___ = -35$

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59. Replace the blank with an integer to make it a true statement.:-

$_____ \times (-8) = -56$

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60. Replace the blank with an integer to make it a true statement.:-

$_____X(-12) = 132$

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61. Evaluate each of the following: $(-30) \div 10$

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62. Evaluate each of the following: $50 \div (-5)$

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63. Evaluate each of the following: $(-36) \div (-9)$

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64. Evaluate each of the following: $(-49) \div (49)$

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65. Evaluate each of the following: $13 \div [(-2) + 1]$

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66. Evaluate each of the following: $0 \div (-12)$

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67. Evaluate each of the following: $(-31) \div [(-30) + (-1)]$

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68. Evaluate each of the following: $[(-36) \div 12] \div 3$

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69. Evaluate each of the following: $[(-6) + 5] \div [(-2) + 1]$

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70. Verify that $a \div (b+c) = (a \div b) + (a \div c)$ for each of the following values of a , b and c. : $a = 12, b = -4, c = 2.$

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71. Fill in the blanks: $369 \div ___ = 369$

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72. Fill in the blanks: $(-75) \div ____ = -1$

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73. Fill in the blanks: $(-206) \div ____ = 1$

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74. Fill in the blanks: $-87 \div _ \ = 87$

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75. Fill in the blanks: $-87 \div 1 = \ -$

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76. Fill in the blanks: $_ \ \div 48 = \ -1$

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77. Fill in the blanks: $20 \div (-10) = \ -(\ _\ )$

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78. Fill in the blanks: $-(\ _\ ) \div (4) = -3$

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79. Write five pairs of integers (a,b) such that $a \div b = -3$, one such pair is $(6, -2)$ because $6 \div (-2) = -3$. :- (-9,3)`

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80. Write five pairs of integers (a,b) such that $a \div b = -3$, one such pair is $(6, -2)$ because $6 \div (-2) = -3$. :- (15,-5)`

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81. Write five pairs of integers (a,b) such that $a \div b = -3$, one such pair is $(6, -2)$ because $6 \div (-2) = -3$. $(18, -6)$

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82. Write five pairs of integers (a,b) such that $a \div b = -3$, one such pair is $(6, -2)$ because $6 \div (-2) = -3$. $(-21, 7)$

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83. The temperature at 12 noon was 10^oC above zero. If it decreases at the rate of 2^oC per hour until midnight, at what time would the temperature be 8^oC below zero? What would be the teperature at midnight?

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84. In a class test (+3) marks are given for every correct answer and `(-2) marks are given for every incorrect answer and no marks for not

attemption any question:- Radhika scored 20 marks. If she has got 12 correct answers, how many questions has she attempted incorrectly?

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85. In a class test $(+3)$ marks are given for every correct answer and (-2) marks are given for every incorrect answer and no marks for not attemption any question:- Mohini scores -5 marks in this test, though she has got 7 correct answers. How many questions has she attempted incorrectly?

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86. An elevator descends into an mine shaft at the rate of 6m/min. If the descent starts from 10m above the ground level,how long will it take to reach -350 m.

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