



MATHS

BOOKS - NCERT EXEMPLAR

INTEGERS

Solved Examples

1. Write the correct answer from the given four options : Sania and Trapi visited Leh and Tawang respectively during winter. Sania

reported that she had experienced $-4^{\circ}C$ on Sunday, while Trapi reported that she had experienced $-2^{\circ}C$ on that day. On that Sunday

- A. Leh was cooler than Tawang.
- B. Leh was hotter than Tawang.
- C. Leh was as cool as Tawang.
- D. Tawang was cooler than Leh.

Answer: A



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2. State whether each of the following statements is true or false :

Every positive integer is greater than 0.



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3. State whether each of the following statements is true or false :

Every integer is either positive or negative.



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4. Fill in the blank using $<$, $>$ or $=$ to make the statement correct

$$3 + (-2) \text{-----} 3 + (-3)$$



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5. Represent the following using integers with proper sign :

3 km above sea level



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6. Represent the following using integers with proper sign :

A loss of Rs 500



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7. Find the sum of the pairs of integers :

$$-6 - 4$$



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8. Find the sum of the pairs of integers :

$$+3, -4$$



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9. Find the sum of the pairs of integers :

$$+4, -2$$



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10. Find the sum of -2 and -3 , using the number line

A. -5

B. 5

C. -6

D. 0

Answer: A



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11. Subtract : (i) 3 from -4 (ii) -3 from -4



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12. Using the number line, subtract : (a) 2 from -3

(b) -2 from -3 .



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13. How many integers are there between -9 and -2 ?



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14. Calculate :

$$1 - 2 + 3 - 4 + 5 - 6 + 7 - 8 + 9 - 10$$



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15. The sum of two integers is 47. If one of the integers is -24 , find the other.



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16. Write the digits 0,1,2,3,4,5,6,7,8 and 9 in this order and insert '+' or '-' between them to get the result

(a) 5 (b) -3



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17. Write five distinct integers whose sum is 5.



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**Exercise Only One Of The Four Options Is Correct
Write The Correct One**

1. Every integer less than 0 has the sign

A. +

B. -

C. ×

D. ÷

Answer: B



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2. The integer '5 units to the right of 0 on the number line' is

A. $+5$

B. -5

C. $+4$

D. -4

Answer:



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3. The predecessor of the integer -1 is

A. 0

B. 2

C. -2

D. 1

Answer: C



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4. Number of integers lying between -1 and 1 is

A. 1

B. 2

C. 3

D. 0

Answer: D



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5. Number of whole numbers lying between -5 and 5 is

A. 10

B. 3

C. 4

D. 5

Answer:



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6. The greatest integer lying between -10 and -15 is

A. -10

B. -11

C. -15

D. -14

Answer:



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7. The least integer lying between -10 and -15 is.

A. -10

B. -11

C. -15

D. -14

Answer:



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8. On the number line, the integer 5 is located

A. to the left of 0

B. to the right of 0

C. to the left of 1

D. to the left of -2

Answer:



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9. In which of the following pairs of integers, the first integer is not on the left of the other integer on the number line?

A. $(-1, 10)$

B. $(-3, -5)$

C. $(-5, -3)$

D. $(-6, 0)$

Answer:



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10. The integer with negative sign (-) is always less than

A. 0

B. -3

C. -1

D. -2

Answer:



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11. An integer with positive sign (+) is always greater than

A. 0

B. 1

C. 2

D. 3

Answer:



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12. The successor of the predecessor of -50 is

A. - 48

B. - 49

C. - 50

D. - 51

Answer:



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13. The additive inverse of a negative integer

A. is always negative

B. is always positive

C. is the same integer

D. zero

Answer: B



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14. Amulya and Amar visited two places A and B respectively in Kashmir and recorded the minimum temperatures on a particular day as $-4^{\circ}C$ at A and $-1^{\circ}C$ at B. Which of the following statement is true?

A. A is cooler than B

B. B is cooler than A

C. There is a difference of $2^{\circ}C$ in the temperature

D. The temperature at A is $4^{\circ}C$ higher than that at B.

Answer:



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15. When a negative integer is subtracted from another negative integer, the sign of the result

A. is always negative

B. is always positive

C. is never negative

D. depends on the numerical value of the
integers

Answer:



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16. The statement “When an integer is added to itself, the sum is greater than the integer” is

A. always true

B. never true

C. true only when the integer is positive

D. true for non-negative integers

Answer:



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17. Which of the following shows the maximum rise in temperature?

A. $0^{\circ}C$ to $10^{\circ}C$

B. $-4^{\circ}C$ to $8^{\circ}C$

C. $-15^{\circ}C$ to $-8^{\circ}C$

D. $-7^{\circ}C$ to 0°

Answer:



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**Exercise State Whether The Given Statements
Are True T Or False F**

1. The smallest natural number is zero.



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2. Zero is not an integer as it is neither positive nor negative.



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3. The sum of all the integers between -5 and -1 is -6.



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4. The successor of the integer 1 is 0.



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5. Every positive integer is larger than every negative integer.



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6. The sum of any two negative integers is always greater than both the integers.



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7. The sum of any two negative integers is always smaller than both the integers.



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8. The sum of any two positive integers is greater than both the integers.



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9. All whole numbers are integers



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10. All integers are whole numbers.



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11. Since $5 > 3$, therefore $-5 > -3$



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12. Zero is less than every positive integer.



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13. Zero is larger than every negative integer.



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14. Zero is neither positive nor negative.



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15. On the number line, an integer on the right of a given integer is always larger than the integer



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16. -2 is to the left of -5 on the number line.



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17. The smallest integer is 0.



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18. 6 and -6 are at the same distance from 0 on the number line.



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19. The difference between an integer and its additive inverse is always even.



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20. The sum of an integer and its additive inverse is always zero.



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21. The sum of two negative integers is a positive integer.



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22. The sum of three different integers can never be zero.



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Exercise Fill In The Blanks To Make The Statements True

1. On the number line, -15 is to the _____ of zero.



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2. On the number line, 10 is to the _____ of zero.



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3. The additive inverse of 14 is _____.



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4. The additive inverse of -1 is _____.



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5. The number of integers lying between -5 and 5 is _____.



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6. $(-11) + (-2) + (-1) = \underline{\hspace{2cm}}$



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7. $(-80) + 0 + (-90) = \underline{\hspace{2cm}}$



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8. $\underline{\hspace{2cm}} - 3456 = -8910$



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Exercise Fill In The Blanks

1. $(-11) + (-15)$ _____ $11 + 15$



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2. $(-71) + (-9)$ _____ $(-81) + (-9)$



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3. Fill in blanks using sign $<$, $>$ or $=$.

$$0 \text{ ----- } 1$$



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4. $-60 \text{ ----- } 50$



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5. $-10 \text{ ----- } -11$



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$$6. -101 \text{ ______ } -102$$



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$$7. \quad (-2) + (-5) + (-6) \text{ ______ }$$

$$(-3) + (-4) + (-6)$$



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$$8. 0 \text{ ______ } -2$$



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9. $1 + 2 + 3$ _____

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



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Exercise

1. Match the items of Column I with that of Column II:

Column I	Column II
(i) The additive inverse of +2	(A) 0
(ii) The greatest negative integer	(B) -2
(iii) The greatest negative even integer	(C) 2
(iv) The smallest integer greater than every negative integer	(D) 1
(v) Sum of predecessor and successor of -1	(E) -1



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2. Compute each of the following:

$$30 + (-25) + (-10)$$



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3. Compute each of the following:

$$(-20) + (-5)$$



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4. Compute each of the following:

$$70 + (-20) + (-30)$$

A. 20

B. -20

C. 22

D. -22

Answer: A



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5. Compute each of the following:

$$-50 + (-60) + 50$$



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6. Compute each of the following:

$$1 + (-2) + (-3) + (-4)$$



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7. Compute each of the following:

$$0 + (-5) + (-2)$$



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8. Compute each of the following:

$$0 - (-6) - (+6)$$



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9. Compute each of the following:

$$0 - 2 - (-2)$$



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10. If we denote the height of a place above sea level by a positive integer and depth below the sea level by a negative integer, write the following using integers with the appropriate signs:

(a) 200 m above sea level (b) 100 m below sea level

(c) 10 m above sea level (d) sea level



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11. Write the opposite of each of the following:

Decrease in size



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12. Write the opposite of each of the following:

Failure



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13. Write the opposite of each of the following:

Profit of Rs.10



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14. Write the opposite of each of the following:

1000 A.D.



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15. Write the opposite of each of the following:

Rise in water level



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16. Write the opposite of each of the following:

60 km south



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17. Write the opposite of each of the following:

10 m above the danger mark of river Ganga



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18. Write the opposite of each of the following:

20 m below the danger mark of the river

Brahmaputra



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19. Write the opposite of each of the following:

Winning by a margin of 2000 votes



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20. Write the opposite of each of the following:

Depositing Rs.100 in the Bank account



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21. Write the opposite of each of the following:

$20^{\circ} C$ rise in temperature.



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22. Temperature of a place at 12:00 noon was

$+5^{\circ} C$. Temperature increased by $3^{\circ} C$ in first

hour and decreased by $1^{\circ} C$ in the second

hour. What was the temperature at 2:00 pm?



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23. Write the digits 0, 1, 2, 3, ..., 9 in this order and insert '+' or '-' between them to get the result 3.



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24. Write the integer which is its own additive inverse



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25. Write six distinct integers whose sum is 7.



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26. Write the integer which is 4 more than its additive inverse.



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27. Write the integer which is 2 less than its additive inverse.



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28. Write two integers whose sum is less than both the integers.



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29. Write two distinct integers whose sum is equal to one of the integers.



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30. Using number line, how do you compare

(a) two negative integers? (b) two positive integers?

(c) one positive and one negative integer?



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31. Observe the following :

$$1 + 2 - 3 + 4 + 5 - 6 - 7 + 8 - 9 = -5$$

Change one $-$ sign as $+$ sign to get the sum 9.



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32. Arrange the following integers in the ascending order :

$-2, 1, 0, -3, +4, -5$



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33. Arrange the following integers in the descending order :

$-3, 0, -1, -4, -3, -6$



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34. Write two integers whose sum is 6 and difference is also 6.



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35. Write five integers which are less than -100 but greater than -150.



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36. Write four pairs of integers which are at the same distance from 2 on the number line.



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37. The sum of two integers is 30. If one of the integers is -42 , then find the other.



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38. Sum of two integers is -80 . If one of the integers is -90 , then find the other.



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39. If we are at 8 on the number line, in which direction should we move to reach the integer
(a) -5 (b) 11 (c) 0 ?



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40. Using the number line, write the integer which is

(a) 4 more than -5

(b) 3 less than 2

(c) 2 less than -2



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41. Find the value of

$$49 - (-40) - (-3) + 69$$



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42. Subtract -5308 from the sum $[(-2100) + (-2001)]$



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