



India's Number 1 Education App

MATHS

NCERT - NCERT MATHEMATICS(ENGLISH)

INTEGERS

Exercise 6 1

1. 10. Draw a number line and answer the following : (a) Which number will we reach if we move 4 numbers to the right of -2 . (b) Which number will we reach if we move 5 numbers to the left of 1 . (c) If we are at -8 on the number line, in which direction should we move to reach -13 ? (d) If we are at -6 on the number line, in which direction should we move to reach -1 ?



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2. Write opposites of the following : (a) Increase in weight (b) 30 km

north (c) 326 BC (d) Loss of Rs 700 (e) 100 m above sea level



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3. Represent the following numbers as integers with appropriate signs.

- (a) An aeroplane is flying at a height two thousand metre above the ground.(b) A submarine is moving at a depth, eight hundred metre below the sea level.(c) A deposit of rupees two hundred.(d) Withdrawal of rupees seven hundred.



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4. Represent the following numbers on a number line : a) + 5 (b) - 10 (c)

+ 8 (d) - 1 (e) - 6



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5. Adjacent figure is a vertical number line, representing integers. Observe it and locate the following points : (a) If point D is $+8$, then which point is -8 ? (b) Is point G a negative integer or a positive integer? (c) Write integers for points B and E. (d) Which point marked on this number line has the least value? (e) Arrange all the points in decreasing order of value.



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6. Following is the list of temperatures of five places in India on a particular day of the year. Place Temperature Sachin $10^{\circ}C$ below $\{0^{\circ}\}C$ Shimla $2^{\circ}C$ below $0^{\circ}CA$ hmedabad $30^{\circ}C$ above $0^{\circ}C$ Delhi $20^{\circ}C$ above $0^{\circ}C$ Srinagar $5^{\circ}C$ below $0^{\circ}C$ (a) Write the mperature so f these places in the f or mofint $\geq rs \in$ the $10^{\circ}C$



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7. In each of the following pairs, which number is to the right of the other on the number line? (a) 2, 9 (b) -3 , -8 (c) -11 , 10 (d) -6 , 6 (e) 1 , -100 (f) 0 , -1



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8. Write all the integers between the given pairs (1) (write them in the increasing order.) (a) 0 and -7 (b) -4 and 4 (c) -8 and -15 (d) -30 and -23 (2) WRITE 4 integers greater than -20 and 4 integers less than -10



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9. (a) Write four negative integers greater than -20 . (b) Write four negative integers less than -10 .



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10. For the following statements, write True (T) or False (F). If the statement is false, correct the statement. (a) -8 is to the right of -10 on a number line. (b) -100 is to the right of -50 on a number line. (c) Smallest negative integer is -1 (d) -26 is greater than -25



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Exercise 6 3

1. Fill in the blanks with $>$, $<$ or $=$.
 $\sin(a)(-3) + (-6)(-3) - (-6)$ (b) $(-21) - (-10)$



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2. Fill in the blanks. (a) $(-8) + [] = 0$ (b) $13 + [] = 0$ (c) $12 + (-12) = []$ (d) $(-4) + [] = -12$
(e) $[] - 15 = -10$



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3. Find (a) $35 - (20)$ (b) $72 - (90)$ (c) $(-15) - (-18)$ (d)
 $(-20) - (13)$ (e) $23 - (-12)$ (f) $(-32) - (-40)$



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4. Find (a) $(-7) - 8 - (-25)$ (b) $(-13) + 32 - 8 - 1$ (c)
 $(-7) + (-8) + (-90)$ (d) $50 - (-40) - (-2)$



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Exercise 6 2

1. Find the sum : (a) $(-7) + (-9) + 4 + 16$ (b)
 $(37) + (-2) + (-65) + (-8)$



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2. Find the sum of (a) 137 and (-354) (b) (-52) and 52 (c) -312 , 39 and 192 (d) -50 , -200 and 300



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3. Using the number line write the integer which is : (a) 3 more than 5 (b) 5 more than -5 (j) 6 less than 2 (k) 3 less than -2



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4. Add without using number line : (a) $11 + (-7)$ (b) $(-13) + (+18)$ (c) $(-10) + (+19)$ (d) $(-250) + (+150)$ (e) $(-380) + (-70)$ (f) $(-217) + (-100)$



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5. Use number line and add the following integers :

(a) $9 + (-6)$

(b) $5 + (-11)$

(c) $(-1) + (-7)$

(d) $(-5) + 10$

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

(f) $(-2) + 8 + (-4)$



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