

INDIAN SCHOOL AL WADI AL KABIR

Class VI, Mathematics (2023-24)

Worksheet DTQ – INTEGERS

SHORT ANSWER TYPE QUESTIONS- 7 QUESTIONS. (2 Marks each)

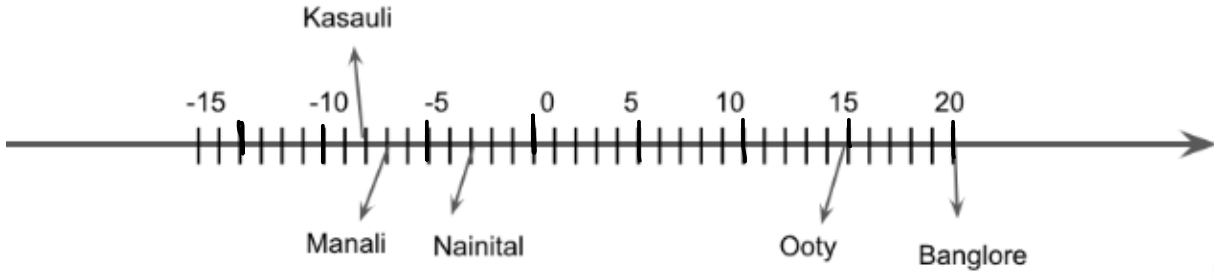
Q1	Represent the following as an integer with appropriate sign: a) A coal mine of depth 1500 m. b) A withdrawal of five thousand Rupees from a bank account.
Q2	Using a number line, find the sum: $(-7) + 3$
Q3	Answer the following: a) Write the successor of (-23) b) Write the predecessor of (-19)
Q4	List 4 integers lying between (-2) and 3.
Q5	Identify the following integers: a) Greatest negative integer. b) Smallest positive integer.
Q6	a) Arrange the following in ascending order: 12, 0, (-30) , (-11) , 19, (-21) b) Arrange the following integers in descending order: 32, 10, (-18) , (-16) , 13, (-24)
Q7	i) Write 4 negative integers less than (-12) ii) Write 4 negative integers greater than (-7) (CBQ)

SHORT ANSWER TYPE- 5 QUESTIONS. (3 Marks each)

Q8	Answer the following: i) Which number will be reached on a number line if we start from (-4) and move 5 places to the right. ii) Write an integer to represent a loss of ₹3000. iii) List the integers that lie between (-2) and 2.
Q9	Use number line and solve: i) $(-2) + 6$ ii) $7 + (-8)$
Q10	Solve without using number line: a) $(-15) + (-35) + (-18)$ b) $234 + (-250)$ c) $(-36) - (-24) + 10$

Q11	State whether the following statements are True or False a) The value of integers decreases towards left. b) The sum of an integer and its additive inverse gives 0. c) All integers are whole numbers.
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LONG ANSWER TYPE- 3 QUESTIONS. (4 Marks each)

Q12	 <p>The given number line represents the temperature at 5 different cities.</p> <ol style="list-style-type: none"> Which is the coolest city? What is its temperature? Which of the given cities have a temperature greater than 0°C. Which is the hottest city and what is its temperature? After 2 hours, if the temperature of Nainital dropped by 2 degrees from -3°C, what is the decreased temperature? <p style="text-align: right;">CBQ</p>
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Q13	Identify the integer with proper sign in the following: a) The only integer that is additive inverse of itself. b) The smallest integer lying between (-10) and (-5) . c) The record high temperature of Ooty is 25°C and the record low temperature is $(-2)^{\circ}\text{C}$. Find the difference between the highest and lowest temperatures. d) The sum of (-20) and (-16) .
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CBQ

Q14	Match the items in column I with the items in column II
Column I	Column II
i) Additive inverse of -1	a) -1
ii) smallest integer greater than every negative integer	b) -2
iii) Sum of the predecessor and successor of -1	c) 1
iv) 2 more than -3	d) 0

Q15	Solve without using number line. <ol style="list-style-type: none"> $(-18) - (-24)$ $67 - 82$ $(-120) - 34$ $111 - (-121) + 28$
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ANSWERS

Q1.	a) -1500 b) -5000 c) -4	Q2.	-4	Q3.	a) -22 b) -20
Q4.	-1,0,1,2	Q5.	a) -1 b) 1	Q6.	a) -30, -21, -11 0,12,19 b) 32,13,10, -16, -18, -24
Q7.	i) -13, -14, -15, -16 ii) -6, -5, -4, -3	Q8.	i) 1 ii) -3000 iii) -1, 0, 1	Q9.	i) 4 ii) -1
Q10.	a) -68 b) -16 c) -2	Q11.	a) True b) True c) False	Q12.	i) Kasauli; -8 ii) Ooty, Bangalore iii) Bangalore, 20°C iv) -5 °C
Q13.	a) 0 b) -9 c) 27 °C d) -36	Q14.	i) 1 ii) 0 iii) -2 iv) -1	Q15.	i) 6 ii) -15 iii) -154 iv) 260