

**INDIAN SCHOOL AL WADI AL KABIR**  
**Class VI, Mathematics (2025-26)**  
**THE OTHER SIDE OF ZERO**  
 WORKSHEET-2

**Multiple Choice Questions**

<b>Q.1</b>	The additive inverse of $(-29)$ is:							
	<b>A</b>	$\frac{1}{-29}$	<b>B</b>	$\frac{1}{29}$	<b>C</b>	1	<b>D</b>	29
<b>Q.2</b>	The value of $(+4) + (-3) + (-8)$ is:							
	<b>A</b>	-1	<b>B</b>	-7	<b>C</b>	1	<b>D</b>	0
<b>Q.3</b>	The sum of smallest positive integer and the greatest negative integer is :							
	<b>A</b>	0	<b>B</b>	-1	<b>C</b>	1	<b>D</b>	10
<b>Q.4</b>	Which of the following statements is true about integers on a number line:							
	<b>A</b>	The value of the integers increases towards the left	<b>B</b>	$(-100)$ is greater than $(-10)$	<b>C</b>	0 is the only integer which is neither negative nor positive.	<b>D</b>	Additive inverse of 5 is $\frac{1}{5}$
<b>Q.5</b>	Which of the following numbers is an integer?							
	<b>A</b>	4.5	<b>B</b>	0	<b>C</b>	$\frac{3}{4}$	<b>D</b>	-5.1
<b>Q.6.</b>	Which of the following forms a pair of integers whose sum is $-1$							
	<b>A</b>	$(3, -4)$	<b>B</b>	$(-1, 1)$	<b>C</b>	$(-6, -5)$	<b>D</b>	$(8, -7)$
<b>Q.7</b>	The value of $(-400) - (-55)$ is:							
	<b>A</b>	455	<b>B</b>	-345	<b>C</b>	-455	<b>D</b>	-400
<b>Q.8</b>	Sonu had ₹850 in his bank account. He withdrew ₹135 from his account. His current bank balance is:							
	<b>A</b>	₹ 615	<b>B</b>	₹815	<b>C</b>	₹985	<b>D</b>	₹715
<b>Q.9</b>	The value of $(-11) + (18) - (-3)$ is:							
	<b>A</b>	-10	<b>B</b>	10	<b>C</b>	15	<b>D</b>	12

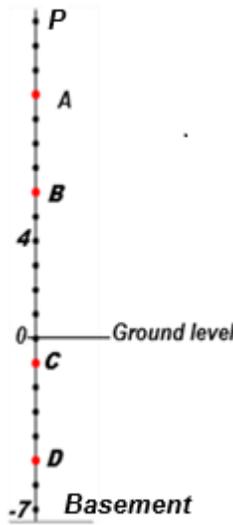
**Q10.** Write an integer to represent the following: "a mine with depth of 450 m."

<b>A</b>	450	<b>B</b>	-450	<b>C</b>	0	<b>D</b>	-1
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**LONG ANSWER QUESTIONS:**

**Q.11** Imagine a building of fun with different floors. All the floors below the ground floor are represented by negative integers and all the floors above the ground floor by positive integers. Refer to the vertical number line to represent an elevator. Akshit enters the elevator from the ground floor.

- If Akshit goes 8 floors up and then comes 2 floors down, which floor will he reach?
- If Rajath gets into the elevator from the 4<sup>th</sup> Floor and goes down by 9 floors, where will he reach?
- If Jithin gets into the elevator at floor D, how many floors he need to go up to reach Floor P? Write an integer to represent Floor D and Floor P.
- How many floors are there in total from the basement to Floor P



**Q.12** Compare the given numbers and fill in the boxes with  $<$ ,  $>$ , or  $=$  sign.

i)  $-16$    $-23$

ii)  $13 - 17$    $30 - 28$

iii)  $11 - 8$    $6 - 9$

**Q.13** Solve the following:

i)  $(-15) - (-24)$

ii)  $45 - 72$

iii)  $100 - (-35) + 56$

**Q.14** Verify the following:

a)  $8 - (+5) = 8 + (-5)$

b)  $10 - (-15) = 10 + (+15)$

<b>Q.15</b>	Ravi had a bank balance of ₹1,700. He used his debit card to withdraw ₹500 to buy a gift for his mother on her birthday. Later, he received his scholarship of ₹800 credited to his account. Represent each transaction using integers and find his final bank balance.
<b>Q.16</b>	The temperature at a hill station at 6 a.m. was $-3^{\circ}\text{C}$ . By noon, the temperature increased by $5^{\circ}\text{C}$ and in the evening, it decreased again by $2^{\circ}\text{C}$ . What was the temperature in the evening?
<b>Q.17</b>	Write all the integers between the given pairs in increasing order. a) 0 and -5 b) -9 and -15 c) 2 and -3
<b>Q.18</b>	Complete the following sequences to the next 2 terms: a) 5, 6, 4, 7, 3, 8, 2, 9, _____, _____. b) 0, 5, -1, 6, -2, 7, -3, 8, _____, _____. c) 1, 2, 0, 3, -1, 4, -2, 5, _____, _____.
<b>Q.19</b>	Suppose you start with 0 rupees in your bank account and then you have debits of ₹25, ₹40, ₹15 and ₹110. Then there is a single credit of ₹500. Find the final account balance.
<b>Q.20</b>	<p><b>Case Study:</b> Sheetal and her brother Shekhar are playing a board game. In this game, moving <b>forward</b> is shown by a <b>positive integer</b> and moving <b>backward</b> is shown by a <b>negative integer</b>.</p> <p>Their moves in one round are recorded as follows:  Sheetal: +5, -3, +2, -6  Shekhar: +4, -6, +3, -5</p> <p>Based on the above information, answer the following questions:</p> <ol style="list-style-type: none"> <li>Find the total score (sum of integers) for Sheetal and Shekhar.</li> <li>Who scored more points in this round?</li> <li>By how many points did the winner lead?</li> <li>Write the additive inverse of Sheetal's score.</li> </ol>



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<b>Answers</b>	<b>1</b>	D) 29	<b>2</b>	B) -7	<b>3</b>	A) 0	<b>4</b>	C)	
	<b>5</b>	B) 0	<b>6</b>	A) 3, -4	<b>7</b>	B) -345	<b>8</b>	D) ₹715	
	<b>9</b>	B) 10	<b>10</b>	B) -450 M	<b>11</b>	i) 6, ii) -5, iii) 13 D represents -5, P represents +13	<b>12</b>	i) > ii) < iii) >	
	<b>13</b>	i) 9 ii) -27 iii) 191	<b>14</b>	Hint: Show LHS = RHS	<b>15</b>	₹2000			
	<b>16</b>	0 °C	<b>17</b>	a) -4, -3, -2, -1 b) -14, -13, -12, -11, -10	<b>18</b>	a) 1, 10 b) -4, 9 c) -3, 6			
	<b>19</b>	₹310	<b>20</b>	i) Sheetal (-2) Shekhar (-4) ii) Sheetal scored more. iii) $-2 - (-4) = 2$ iv) +2					