

Subject: Mathematics

Class: 7

Topic: Addition and Subtraction of Integers using Number Line

Levels: Basic, Intermediate, Advanced

Level: Basic

1. On a number line, starting at 0, if you move 5 steps to the right (?), what integer do you reach? _____
2. Starting from 0, move 8 steps to the left (?). Which integer are you at? _____
3. To add +3 to +4, in which direction do you move from +4? (Left / Right): _____
4. On the number line, is -7 to the left or right of -2? _____
5. Represent ? 10 profit as +10. How would you represent ? 10 loss on a number line? _____
6. Start at -3 and move 2 steps to the right (?). What is the result? _____
7. What is the sign of the integer located 15 units to the left of 0? _____
8. If Rahul is at -1 and moves 4 steps towards the positive side (?), where does he land? _____
9. True or False: Adding a positive integer means moving to the right on the number line. _____
10. Find the value of $2 + (-2)$ using the number line concept. _____

Subject: Mathematics

Class: 7

Topic: Addition and Subtraction of Integers using Number Line

Levels: Basic, Intermediate, Advanced

Level: Intermediate

1. Aarav has ₹ 50. He spends ₹ 30 on a notebook. Show the final balance using integer subtraction:

2. Start at -5. Move 7 steps right (?) and then 3 steps left (?). Where are you? _____
3. What is the distance (units) between -4 and +4 on the number line? _____
4. Calculate $(-8) + (+5)$ by visualizing steps on a number line. Result: _____
5. In Shimla, the temperature was 2°C . It dropped by 5°C at night (?). What is the new temperature?

6. Compare using $<$, $>$ or $=$: $-10 + 4$ [?] $-2 - 3$
7. Find the sum: $(-12) + (-3)$. Does this move you further left or right from -12? _____
8. Anila is at step +6. She moves back 9 steps. Write the integer for her new position: _____
9. Solve: $15 - (+20)$. Use the number line logic of 'adding the opposite'. _____
10. If 0 is the ground level, a bird is at +10m and a fish is at -2m. What is the gap? _____

Subject: Mathematics

Class: 7

Topic: Addition and Subtraction of Integers using Number Line

Levels: Basic, Intermediate, Advanced

Level: Advanced

1. If 'x' is at -15, move 'x' by 20 units to the right. What is the new value? _____
2. Starting at -2, move right by ? units where $? = 10$. Then move left by 4 units. Final position: _____
3. A submarine is 200m below sea level (-200). It rises 75m (?). What is its new depth? _____
4. Find the pattern: -20, -15, -10, _____, _____ (?).
5. What integer must be added to -45 to reach 0 on the number line? _____
6. If you are at point 'a' on the number line and move 'b' units to the left, is the result $(a + b)$ or $(a - b)$?

7. Solve: $(-10) + (+15) + (-5)$ using continuous movement on the line. _____
8. A shopkeeper marks a profit of ? 100 (?) and then a loss of ? 120 (?). Represent the net result: _____
9. If ? represents 3 steps right, where do you land if you start at -5 and move 2? steps? _____
10. Challenge: Start at -1, move right 2^2 , then move left 5. What is the final integer? _____