Subject: Maths

Class: 6

Topic: Number Line Representation

Levels: Basic, Intermediate, Advanced

Level: Basic

1. On a number line, which side of 0 do positive numbers lie? _____ (Left/Right).

2. Rahul is at point 3. If he moves 2 steps to the right, he reaches _____.

3. Represent the number 5 on a number line by marking it with a ? symbol.

4. Which is greater on a number line: 4 or -4? _____.

5. Anila moves 3 steps to the left of 0. She is now at _____.

6. Fill the blank: 0 is _____ (Greater/Smaller) than -1.

7. True or False: Negative numbers are always marked with a '-' sign. [?]

8. Identify the predecessor of 1 on the number line: _____.

9. If you are at -2 and move 2 steps to the right, you reach _____.

10. Draw a line and mark the origin with the symbol ?.

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Level: Intermediate

1. Represent the sum 3 + 4 on a number line. Final position: _____.

2. A shopkeeper has a profit of ? 10 (+10) and a loss of ? 5 (-5). Mark both on a line.

3. Which integer is 4 units to the left of 2? _____.

4. Use the symbol ? to mark the point that represents -6 on your number line.

5. Find the distance between -3 and 3 on the number line: _____ units.

6. Compare using < or >: -10 _____ -2.

7. If a diver is 5m below sea level, represent this as an integer: _____.

8. Starting at 0, move 5 steps right (?) then 3 steps left (?). Where are you?

9. Write all integers between -2 and 2: _____.

10. Show the result of 7 - 9 on a number line. Final value: _____.

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Level: Advanced

1. A lift in a Delhi mall starts at '0' (Ground). It goes up 4 floors then down 6. Level: _____.

2. Represent the absolute value | -8 | as a distance from 0 on the line. Result: _____.

3. If ? represents a jump of +3 and ? represents -2, find: 0 + ? + ? = _____.

4. Find the sum of -15 + 10 using a number line representation.

5. Which integer is exactly in the middle of -4 and 4? _____.

6. Is the value of (-2) + (-3) to the left or right of -2? _____.

7. Represent x on a line if x + 5 = 2. x = _____.

8. Mark two points A and B such that the distance AB is 7 units and A is at -3.

9. Show the squares of numbers 1 and 2 (1^2 and 2^2) on the number line.

10. Logic: If you move from -100 to -90, are you moving towards ? (Sun/Light) or away?