Introduction to Integers

1. What is the sum of -5 and 12?

    a) -17

    b) 17

    c) 7

    d) -7

2. A submarine is 200 meters below sea level. If it rises 150 meters, what is its new position?

    a) 50 meters below sea level

    b) 50 meters above sea level

    c) 350 meters below sea level

    d) 150 meters above sea level

3. Puzzle: Arrange the following integers from least to greatest: 3, -8, 0, -2.

    a) -8, -2, 0, 3

    b) 3, 0, -2, -8

    c) -2, 0, 3, -8

    d) 0, 3, -8, -2

4. If the temperature was -4°C in the morning and it increased by 7°C by the afternoon, what is the current temperature?

    a) 11°C

    b) -11°C

    c) 3°C

    d) -3°C

5. Which of the following correctly shows the opposites of these numbers: -6, 5, -10?

    a) 6, -5, -10

    b) -6, -5, 10

    c) 6, -5, 10

    d) 6, 5, -10

6. Scenario: Sam is playing a game. He gains 15 points and loses 8 points. What is his total score?

    a) 7

    b) -7

    c) 23

    d) -23

7. What is the absolute value of -14?

    a) 0

    b) 14

    c) -14

    d) 28

8. Application: A mountain climber starts at 1,500 meters above sea level and descends 2,000 meters. What is her new altitude?

    a) 500 meters below sea level

    b) 500 meters above sea level

    c) 3,500 meters below sea level

    d) 3,500 meters above sea level

9. True or False: The opposite of -25 is 25.

    a) True

    b) False

10. If -4 × 5 = -20, what is -4 × (-5)?

   a) -20

   b) 20

   c) 0

   d) 5

11. Pattern Puzzle: What is the next integer in the pattern: -5, -3, -1, _ ?

   a) -2

   b) 0

   c) 1

   d) 1

12. A hiker is walking along a trail and descends 100 meters below sea level. If she ascends 50 meters, where is she now?

   a) 150 meters below sea level

   b) 50 meters above sea level

   c) 50 meters below sea level

   d) 100 meters above sea level

13. Critical Thinking: Which of these shows a correct subtraction of integers?

    a) -6 - (-3) = -9

    b) 5 - 7 = -2

    c) -8 - 2 = 6

    d) 10 - (-5) = 5

14. Application: You are playing a video game. Your score starts at -12. After gaining 18 points, what is your new score?

    a) 6

    b) -6

    c) 30

    d) -30

15. Which number is two steps to the left of 1 on the number line?

    a) 3

    b) -1

    c) 0

    d) -2