



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 $-4 \times 5 = -20$, what is $-4 \times (-5)$?

- 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