Applied Problems on Integers

1. Sarah owes her friend $8 and then borrows another $5. How much does she owe in total?

2. A submarine was at a depth of -250 meters. It rises 75 meters. What is its new depth?

3. A temperature dropped from 10°C to -5°C. What is the total change in temperature?

4. If you start with $20, spend $15, and then earn $10, how much money do you have now?

5. John had -12 points in a game. He then earned 25 points. What is his current score?

6. A hiker descends 150 meters down a hill and then climbs up 90 meters. What is the hiker's final elevation relative to the starting point?

7. The temperature was -3°C in the morning and rose by 7°C in the afternoon. What was the afternoon temperature?

8. A bank account has a balance of -$50. If $30 is deposited, what is the new balance?

9. A diver is 20 feet below sea level. If he dives 15 feet deeper and then rises 10 feet, what is his final position relative to sea level?

10. The stock market index started at 0, dropped by 35 points, and then increased by 50 points. What is the final index value?