Applied Problems on Integers

☐ A hiker starts at 100 meters above sea level, climbs 200 meters, descends 250 meters, and then climbs 150 meters. What is the hiker's final elevation relative to sea level?

☐ A football team gains 30 yards on one play, loses 15 yards on the next, gains 20 yards on the following play, and then loses 10 yards. What is the net yardage after these four plays?

☐ A bank account had a balance of -$75. The account holder deposits $40, withdraws $60, and then deposits $25. What is the final balance?

☐ The temperature was 10°C in the morning. It dropped by 15°C in the afternoon and rose by 8°C in the evening. What was the temperature at the end of the day?

☐ A diver starts at 30 meters below sea level, ascends 15 meters, descends 20 meters, and then ascends another 25 meters. What is the diver's final position relative to sea level?

☐ A farmer has a debt of $500. He pays off $200, incurs an additional $150 debt, and then pays off $100 more. What is his final debt?

☐ A cyclist rides 12 miles north, then 8 miles south, 5 miles north, and finally 7 miles south. How far is the cyclist from the starting point?

☐ The temperature in a refrigerator was -5°C. It increased by 7°C after being opened, then decreased by 4°C, and finally increased by 3°C. What is the final temperature?

☐ A company's stock price started at -$20, rose by $50, dropped by $35, and then rose by another $25. What is the final stock price?

☐ A submarine is at a depth of -120 meters. It ascends 80 meters, descends 50 meters, and then ascends 40 meters. What is its final depth?