Codingal
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Applied Problems on Integers

1. **A business started the month with a loss of $1,200. Midway through the month, it gained $850, but by the end of the month, it incurred an additional loss of $600. What was the business's net gain or loss at the end of the month?**

2. **A hiker begins at an elevation of 320 meters above sea level and descends 480 meters into a canyon. After resting, the hiker climbs up 150 meters and then descends another 200 meters. What is the hiker's final elevation relative to sea level?**

3. **During a cold wave, the temperature in City A drops from 12°C to -8°C in the morning and then rises by 15°C in the afternoon. Meanwhile, City B starts at -5°C, drops by 20°C, and rises by 10°C. Compare the final temperatures of both cities.**

4. **A submarine starts at a depth of -750 meters, ascends 500 meters, then descends 250 meters, and finally rises another 200 meters. What is the submarine's final depth?**

5. **A mountain climber ascends from a base camp at 1,200 meters to a peak at 3,500 meters, then descends to a plateau at 2,000 meters, and finally climbs up to a secondary peak at 2,800 meters. Calculate the total change in elevation from the base camp to the secondary peak.**

6. **A bank account had a balance of -$340. The account holder deposits $200, withdraws $450, and then deposits another $100. What is the final balance in the account?**

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7. **A cargo ship is 250 meters below sea level. It rises 180 meters to avoid an obstacle but then descends 300 meters to continue its journey. If it then rises 150 meters, what is the ship's final position relative to sea level?**

8. **In a video game, a player starts with a score of -150 points. The player gains 200 points, loses 180 points, gains 120 points, and finally loses 100 points. What is the player's final score?**

9. **A stock market index starts at -200 points. It gains 450 points, loses 600 points, gains 300 points, and finally loses 150 points. What is the final index value?**

10. **A scientist is conducting an experiment in which the temperature of a chemical solution starts at -30°C. The solution is heated by 40°C, then cooled by 60°C, and finally heated by 25°C. What is the final temperature of the solution?**

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