

## 2.1f Class Activity: Applying Integer Operations

Use a chip or number line model to solve each of the following. Write a numerical expression that models your solution and then write a complete sentence stating your answer.

1. At the Masters Golf Tournament, Tiger Woods' score is  $-3$  and Phil Mickelson's score is  $-5$ . Who is in the lead and by how many shots? (Note: In golf, the lower score wins.)
2. Steve found a treasure map that said to take ten steps north, then ten steps south. Where is Steve in relationship to where he started?
3. Tom left school and walked 5 blocks east. Charlie left school and walked the same distance west. How far apart did the two friends end up?
4. Ricardo's grandmother flew from Buenos Aires, Argentina to Minnesota to visit some friends. When Ricardo's grandmother left Buenos Aires the temperature was  $84^{\circ}$ . When she arrived in Minnesota it was  $-7^{\circ}$ . What was the temperature change for Ricardo's grandmother?
5. The elevator started on the 8<sup>th</sup> floor, went up 5 floors, and then went down 2 floors. What floor is it on now?
6. The temperature rose  $13^{\circ}\text{F}$  between noon and 5 p.m. and then fell  $7^{\circ}\text{F}$  from 5 p.m. to 10 p.m. If the temperature at noon is  $75^{\circ}\text{F}$ , what would the temperature be at 10 p.m.?
7. Paula was standing on top of a cliff 35 feet above sea level. She watched her friend Juan jump from the cliff to a depth of 12 feet into the water. How far apart are the two friends?
8. The carbon atom had 6 protons and 6 electrons. What is the charge of the atom?
9. The Broncos got possession of the football on their own 20 yard line. They ran for an 8 yard gain. The next play was a 3 yard loss. What is their field position after the two plays?
10. Samantha earned \$14 for mowing the lawn. She then spent \$6 on a new shirt. How much money does she have now?