

## SIGNED INTEGER WORD PROBLEMS

1. The temperature at noon on a winter day was  $8^{\circ}$  C. At midnight, the temperature had dropped  $15^{\circ}$ . What was the temperature at midnight?
  2. In 2001, Standard Register reported a net loss of \$43.9 million. In 2002, the company had a net income of \$33 million. How much more money did the company make in 2002 than in 2001? (Source: *Dayton Daily News*)
  3. On a recent glider flight, Lucy took a tow to 3000 feet above ground level. She found a good thermal and climbed 1800 feet. Then she hit big sink and lost 2200 feet. What was her altitude at that point?
  4. An architectural drawing of a building shows the elevation of the basement floor to be  $-12$  feet. The elevation of the roof is 32 feet. What is the total distance from the roof to the basement floor?
  5. One day in July, the temperature at ground level at the airport was  $90^{\circ}$ . A pilot reported the temperature at 10,000 feet was  $50^{\circ}$ . How much did the temperature drop *per 1000 feet*? (Hint: find the amount of temperature change and set up a proportion.)
1.  $-7^{\circ}$       2. \$76.9 million      3. 2600 feet      4. 44 feet      5.  $4^{\circ}$