5.6 Applications of Percent

Learning Objectives:
1. Solve applications involving percent.
2. Find the percent of increase and percent of decrease.

1. Solving applications involving percent

Example 1. Solve.

1. 15% of Carol’s check of $1200 is paid towards health care. How much money is paid towards health care?

2. One day, 18 students were out sick with the flu. What percent of the students were absent if there should be a total of 80 students in the class?

2. Finding the Percent of Increase or Percent Decrease

Steps: to find percent increase or decrease:
1. Find the amount of increase or amount of decrease
2. Use proportion to find the percent increased or percent decreased.

Example 2. The price of a car decrease from $20000 to $15000 after just 500 miles of used. What is the percent depreciation for the car?
Example 3. Recently, a bookstore announced that all their books would increase in price 5%. How much will a book cost if the original price was $5.50?