Exercise 8.5.2  Continue to solve more ratio, proportion, and percent problems.

1. A new car is offered with a 12% rebate. If the car normally costs $18,000, how much will it cost now (before tax)?

2. Of the 1600 students who voted, 45% of them voted yesterday. How many students voted yesterday?

3. 9 out of 16 people voted for the “Clean Air” bill in Clark’s town. If 15,000 people voted for the “Clean Air” bill, how many people are there in Clark’s town?

4. If a computer costs $1000 but is marked down 30%, how much will it cost with 8.25% tax?

5. Suppose you have $35 in your wallet and you go out to eat. If you plan to pay 20% of the bill in tip and taxes, how much should your meal add up to without tip and taxes in order for you to cover the bill?

6. There are 65 students in Biology 101. If 43 students went on the field trip yesterday, what percent of the students didn’t go on the field trip yesterday?

7. Anderson and Jake went fishing. Anderson caught 22 fish. That amount was 89% of the number of fish that Jake caught. How many fish did Jake catch?

8. There are 26 students in your chemistry class. Eight students were absent on Friday. What percent of the students were absent? What percent of the students were present?

9. Sammy bought a jacket that was on sale for 85% of the original price. If Sammy paid $240, what was the original price of the jacket?

10. Mehdi bought 15 feet of pipe from the hardware store. How many yards of pipe did he buy if each yard equals three feet?

11. Nikkie bought a pair of shoes with a purchase price of $43. The sales tax in her county is 8.25%. What was her total cost?

12. If you put 9 red marbles in a bag with six green marbles,

   (a) what percent of the marbles are red?

   (b) what percent of the marbles are green?

13. If Michelle makes 63% of her shots in basketball, how many shots did she make if she attempted 40 shots?