CHAPTER 10

VOID FUNCTIONS

The answers for the Void Functions section are located at the end of the section.

- 1. Write the code for the displaySquareRoot function. The function should display the square root of the double number passed to it. Use number as the parameter name. Then write the code to call the function, passing it the value stored in the double num variable.
- 2. Write the code for the resetTotals function. The function should assign the number 0.0 to the following four double variables: totalNorthSales, totalSouthSales, totalEastSales, and totalWestSales. Then write the code to call the function.
- 3. Write the code for the displayMessage function. The function should display a message containing the two values passed to it: a name and a sales amount. The message should say "Congratulations, name! You sold \$sales amount." Use salesName and sales as the parameter names. Then write the code to call the function, passing it the contents of a string variable named salesPerson and a double variable named salesAmt.
- 4. Write the code for the tripleNumber function. The function receives two int variables: the first by value and the second by reference. The function should multiply the contents of the first int variable by 3 and then store the result in the second int variable. Use the following parameter names: firstInt and secondInt.
- 5. Write the code for a function named calcSalesTax. The function receives three double variables: the first two *by value* and the last one *by reference*. Use the following names for the parameters: sales, taxRate, and salesTax. The function should calculate the sales tax.
- 6. Write the code for a function named displayNetIncome. The function receives two double variables by value. Use the following names for the parameters: revenue and expenses. The function should calculate and display the net income.

ANSWERS FOR THE VOID FUNCTIONS SECTION

```
1. void displaySquareRoot(double number)
{
      cout << sqrt(number) << endl;
} //end of displaySquareRoot function
      displaySquareRoot(num);</pre>
```

```
2. void resetTotals()
        totalNorthSales = 0.0;
        totalSouthSales = 0.0;
        totalEastSales = 0.0;
         totalWestSales = 0.0;
    } //end of resetTotals function
    resetTotals();
3. void displayMessage(string salesName, double sales)
         cout << "Congratulations, " << salesName <<</pre>
              "! You sold $" << sales << endl;
       //end of displayMessage function
    displayMessage(salesPerson, salesAmount);
4. void tripleNumber(int firstInt, int &secondInt)
        secondInt = firstInt * 3;
    } //end of tripleNumber function
  void calcSalesTax(double sales, double taxRate, double &salesTax)
         salesTax = sales * taxRate;
    } //end of calcSalesTax
  void displayNetIncome(double revenue, double expenses)
         cout << "Net income: " << revenue - expenses << endl;</pre>
     //end of displayNetIncome function
```