Chapter 3

Short answer

```
12. cout << setw(8) << fixed << showpoint << setprecision(2) << divSales;
13. cout << setw(12) << fixed << setprecision(4) << totalAge;
14. cout << setw(12) << left << showpoint << setprecision(8) << population;
```

Chapter 4

Short answer

- 1.In an if/else if statement, the conditions are tested until one is found to be true. The conditionally executed statement(s) are executed and the program exits the if/else if statement. In a series of if statements, all of the if statements execute and test their conditions because they are not connected.
- 2. The trailing else provides code that is executed when none of the conditions in the if/else if statement are true.
- 4. Yes. The if statement can test any value that yields a Boolean value (true or false) or a numeric value. When testing a numeric expression, a nonzero numeric value is considered true, and the value 0 is considered false.
- 6. It takes two expressions as operands and creates a single expression that is true when either of the subexpressions are true.
- 8. Indentation and spacing are for the human readers of a program, not the compiler. By indenting the conditionally executed statement you are causing it to stand out visually. This is so you can tell at a glance what part of the program the if statement executes.

Fill in the blank

```
11. false, true
13. true
14. braces {}
16. default
27. integer
29. break
30. a) 1 b)0 c)0 d)1
Algo Workbench
31. If (y==0) {
    x=100; }
32. If (y==10) {
    x=0; }
else {
    x=1; }
```