## **Quiz 2 Answers**

1. What must header file must you #include to use the setw() manipulator?

```
<iomanip>
```

2. What does the showpos manipulator do?

A plus sign (+) will precede every non-negative number printed (including zeros).

- 3. What is the default value of the setw() manipulator?
  - 0. The item printed will have no minimum width.
- 4. What is the g++ option for compiling a source code file into an object file, but not linking it into an executable file?

-C

5. Which manipulator does not have a persistent effect and must be coded for each value printed?

```
setw (although endl could also qualify)
```

6. In fixed floating point format, what does *precision* represent?

The number of digits that will be printed after the decimal point when a floating point number is printed.

7. Write a variable declaration for a pointer to a char.

```
char* ptr
```

8. An array of char named studentName contains a C string. Write code to copy this C string into another array of char named searchName.

```
strcpy(searchName, studentName);
```

9. Write a definition for a function that takes one argument, an array of char that contains a C string. The function should return an integer representing the number of numeric digits contained in the C string.

```
int countDigits(char s[])
   {
   int i, total = 0;

   for (i = 0; s[i] != '\0'; i++)
        {
        if (isdigit(s[i])
            total++;
        }

   return total;
}
```

10. Write a definition for a function that takes two arguments, an array of char that contains a C string, and a char variable. The function should return an integer representing the number of times the value of the second parameter occurs in the C string passed in as the first parameter.