## CPS 171 Answers to Exam Review Questions for Test 3 that are not in the book

## Chapter 8

```
4. x = 3 after the call to DoReference.
x = 16 after the call to DoValue.
x = 17 after the call to DoLocal.
x = 7 after the call to DoGlobal.
```

6. Within the function, n is decremented down to zero. Because n is passed by reference rather than by value, the caller's second parameter contains zero upon return from the function.

9. a. -0.5 b. 0.5

## Chapter 10

- 4. a. defg b. F 70
- 8. The expression has the value FALSE.
- 10. a. invalid b. valid c. valid
- 11. True

## Chapter 11

1.	Record (struct)	A heterogeneous data structure in which the components are accessed by name, not by index	
	Member	A component of a struct	
	Member selector	The expression used to access a member of a struct variable; composed of the name of the struct variable and the member name,	
		separated by a dot (period)	
Hierarchical record A record that		A record that contains another record as a component	
	Data abstraction	The separation of the logical properties of a data type from its implementation details	

3. if (currentDate.year != machine.history.lastServiced.year)

9.	Instantiate	Create an object or variable of a given type
	const member function	A class member function that is allowed to inspect but not to modify the private data members
	Specification file	A header file containing the declaration but not the implementation of a class
	Implementation file	A file containing function definitions of class member functions (and perhaps auxiliary or "helper" functions that are not members of the class)

12. Scope resolution operator	The :: operator that is used in the function heading of a member
	function definition; it is preceded by the class name and followed by
	the member function name
Separate compilation	The process of compiling each file of a multifile program
	independently of the others
C++ class constructor	A class member function that is implicitly invoked whenever a class
	object is created
Default constructor	A parameterless class constructor

13. a. SomeClass obj1(0.0);
 b. SomeClass obj2;
 or
 SomeClass obj2(8.6);

14. The member function SomeClass() is a class constructor and must be declared without a return value type