

## Chapter 7 Review

Due: Thursday (10:00 pm)

Points Possible: 20

No late submissions will be accepted

Print this document, work through the questions prior to starting the self assessment. You will be submitting your answers using the Assessment Tool, with the name **Chapter 7 Review**. There will be a 1 hour time limit when submitting your answers, so be sure to answer all questions prior to your submission. Each question is worth 1 point unless otherwise noted.

**NOTE:** In the assessment, the answers will be presented in a random order, so make sure you select the correct response and not the letter you circle here.

1. Which of the following is placed in a method heading to indicate that no value will be returned?  
a. public      b. static      c. arguments      d. void      e. return
2. When an array is passed to a method, the method has access to the array's memory address. This means an array is passed by \_\_\_\_\_.  
a. reference      b. value      c. alias      d. orientation
3. Which of the following would be the most appropriate way to call the predefined **Ceiling( )** method found in the `Math` class and save the value? The variable `answer` has been declared as a `double`.

```
public static double Ceiling(double num)
```

- a. `Math.Ceiling(47.13);`
- b. `answer = Ceiling(47.13);`
- c. `Ceiling (47.13);`
- d. `answer = Math.Ceiling(47.13);`
- e. `Math.Ceiling(double answer);`

*This is similar to a Hands on Exercise using the Absolute method.*

4. When a method is called from the `Main( )` method, and the method's body has completed, control is returned:  
a. back to the statement in `Main` that made the call  
b. to the last statement in `Main`  
c. to the first statement in `Main`  
d. to the next statement in `Main` after the statement that made the call  
e. to the method that is listed next in the printed source code.

*Use a debugging technique to find the correct answer.*

5. By default, if not listed, the accessibility modifier for a method is \_\_\_\_.
6. In C#, a method must include all of the following *except* a \_\_\_\_\_.  
a. return type      b. parameter list      c. body      d. closing curly brace

7. Suppose the value of `isRateOK()` is true and the value of `isQuantityOK()` is false. When you evaluate the expression `isRateOK() || isQuantityOK()`, which of the following is true?
- Only the method `isRateOK()` executes.
  - Only the method `isQuantityOK()` executes.
  - Both methods execute.
  - Neither method executes.
8. What is the most important reason for creating methods within a program?
- Methods are easily reusable.
  - Because all methods must be stored in the same class, they are easy to find.
  - The `Main()` method becomes more detailed.
  - All of these are true.
9. A method is declared as  
`private static double CalcPay(int hoursWorked, double payRate)`.  
Suppose you write a `Main()` method in the same class that contains declarations `int hours = 35; double rate = 22.22; and double pay;`. Which of the following represents a correct way to call the `CalcPay()` method from the `Main()` method?
- `hours = CalcPay(hoursWorked, payRate);`
  - `hours = Main.CalcPay(hoursWorked);`
  - `pay = CalcPay(hours, rate);`
  - `pay = CalcPay(hours);`
10. Given the call to the method `ComputeCost()` shown below, which of the following would be the most appropriate method header? The variable **myValue** is declared as an **int**.  
`myValue = ComputeCost(39.5);`
- `private static void ComputeCost(double anyValue)`
  - `private static int ComputeCost()`
  - `private static double ComputeCost(int myValue)`
  - `private static int ComputeCost(double anyValue)`
  - `private static int ComputeCost(int anyValue)`
11. The \_\_\_\_\_ statement in a method sends a value back to the calling method.
- return
  - back
  - end
  - void
  - none of these
12. If you use the keyword modifier `static` in a method header, you indicate that the method \_\_\_\_\_.
- can be called without referring to an object
  - cannot be copied
  - can be called only once
  - cannot require parameters
13. A method's type is also its \_\_\_\_\_.
- accessibility
  - parameter type
  - return type
  - scope

14. Which of the following would be a valid call to a method defined as shown below?

```
private static void InitializeValues( )
```

- a. `void InitializeValues ( );`
- b. `InitializeValues (0);`
- c. `int endValue = InitializeValues ( );`
- d. `InitializeValues ( );`
- e. `InitializeValues (intValue);`

15. The following is probably an example of a \_\_\_\_\_

```
DisplayArrayValues( );
```

- a. call to a value-returning method
- b. call to a void method
- c. method header
- d. method definition
- e. call to a method with multiple arguments

16. Suppose you have declared a variable as `int myAge = 65;`. Which of the following is a legal call to a method with the declaration

```
public static void DisplayMessage(int num) ?
```

- a. `DisplayMessage(int 65);`
- b. `DisplayMessage(myAge);`
- c. `DisplayMessage (int myAge);`
- d. `DisplayMessage ( );`

Use the following method header to answer the questions below:

```
public static void GetValue(int value1 )
```

17. How many parameters does the method have?

18. What is the return type for the method?

19. Will the method have a syntax-required “return” statement as part of the body? (yes or no)

20. What is the accessibility modifier?

21. The \_\_\_\_\_ Button in the Debug toolbar behaves like the Step Into Button when the next statement to execute does not contain a method call. (EC 1pt)

Remember that this is a self assessment; please do your own work, and I encourage you to “test” the questions by writing a small program in Visual Studio.