

**True/False**

1. `Math.Ceiling(-3.4)` simplifies to -4
2. We studied `Math.Cube` method can be used to compute a value to the third power.
3. According to Banker's Rounding, 12.5 would round to 12.
4. `Math.Min(Math.Min(-3, -4), 2)` simplifies to -2
5. There is a VB method that can be used to find the square root of a number.
6. The `Rnd` method can be used to generate a truly random number that is totally impossible for any human to predict.
7. `Math.Round(-2.4)` simplifies to -3
8. `Math.Pow(Math.Pow(2, 3), 2)` simplifies to 32.

**Short Answer** - Write code segments to perform the following tasks. Documentation is not necessary. It also is not necessary to declare variables that are mentioned in the exercise unless the exercise specifically requires you to declare variables.

1. Write an assignment statement that generates & stores a pseudorandom integer between 7 & 14 in a variable named `num`.

```
num =
```

2. Write an assignment statement that generates & stores a pseudorandom integer between -7 and 14 in a variable named `num`.

3. Write an assignment statement that generates & stores a pseudorandom integer between 2 and 6 in a variable named `num`.

4. Write code that generates a random integer between 10 and 20 and uses an `If` statement to display "multiple of 5" in a message box if that random number is evenly divisible by 5.

5. Complete the function named `Average` so it accepts three `Integer` parameters & returns the average of those numbers.

```
Private Function Average(  
  

```

```
End Function
```

6. Complete the function named `GetPerimeter` that is passed two `Double` parameters named `len` and `wid`. The function must return the perimeter of a rectangle that has a length of `len` and a width of `wid`.

```
Private Function GetPerimeter(  
  

```

```
End Function
```

7. Trace the following call statements & print the values that are displayed in the corresponding textboxes.

```
Public Class Form1
```

```
Private Sub Form1_Load(. . .)
    Label1.Text = Mystery1(3)           a/ _____
    Label2.Text = Mystery2(5, 1)       b/ _____
    Label3.Text = Mystery1(12 - 4)     c/ _____
    Label4.Text = Mystery2(2, 4) + Mystery1(7) d/ _____
    Label5.Text = Math.Max(5, Math.Max(3, 1)) e/ _____
    Label6.Text = Mystery2(Math.Pow(3, 2), 10 - 4) f/ _____
End Sub
```

```
Private Function Mystery1(ByVal num As Integer) As Integer
    Return num * 3
End Function
```

```
Private Function Mystery2(ByVal x As Integer, ByVal y As Integer) As Integer
    Return Math.Floor((x + y)/2)
End Function
```

8. Write out the Hello World program.