**Quiz #1 (25 pts) – March 3rd, 2016**

1. (5 points) What is the difference between **System.out.println**, **System.out.print**, and **System.out.printf**?
   * System.out.print() outputs text on the screen
   * System.out.println() outputs text on the screen then enters the next line
   * System.out.printf() outputs text on the screen and receives specifiers for formatting
2. (5 points) Assuming there are two variables of the type **double**, named **varX** and **varY**, with **varX** containing the value of 6.45 and **varY** containing the value of 3.125; write a Java statement using the **printf** function and correct format string to output:

**6.45 + 3.13 = 9.58**

* System.out.printf(“%d + %d = %d”, varX, varY, varX + varY);

1. (15 points, 5 points each) Assume the variables for the algebraic expressions have already been declared as integer, write the correct Java statements for the following:
   1. distance = (rate)(time)

* dist = rate \* time;
  1. some\_value =
* num = (a\*a\*a\*a + b) / (2\*x + c);
  1. mystery\_value =
* num = ((3(a\*a\*a\*a\*a\*a\*a) + 5\*b) / (2 \* x)) + c;