**Objectives**

* Define Variables, Literals
* constants
* Variable naming convention ( <http://www.oracle.com/technetwork/java/codeconventions-135099.html>)
* Arithmetic Operators
* print, println commands
* Java Comments

**Preprogram Questions**

1. Which of the following is a valid java variable name:
2. ?myName
3. 12Car
4. $money
5. int

1. Declare a variable of type int to hold the student grade.
2. Declare a variable to hold the constant value for interest rate of 2.5.
3. Declare a String variable to hold the name John.
4. What is the value of z after the following code is executed?

int x = 9, y = 4;

double z = x/y;

1. What is the value of z after the following code is executed?

int x = 9;

double y = 4, z = x/y;

1. What is the value of z after the following code is executed?

int x = 9;

double y = 4, z = x%y;

1. Will the following code compile:

final int X =10;

X=9;

1. Complete the following code to declare two variables of type int and print their sum using the sum variable:

int x = 4;

\_\_\_ y = 7;

int sum = x \_\_ y;

System.out.println(\_\_\_\_\_);

1. In every java program :
2. There must be at least two variables declared
3. There must be a method called “main”
4. All of the variables must be integers

**Practice writing Java Program**

Create a java program that does the following (Use the given template given at the end of this worksheet as a starting point):

* Create an integer variable to hold the approximate number of words you can type in a minute.
* Create a String variable to hold your name.
* Display a message on the Eclipse Console showing your name and the number of words you can type in a minute. Example: “Magi can type 50 words in a minute!”
* Use arithmetic operators to calculate the number of words you can type in a day and display the result on the console. Example: “Magi can type 72000 words in a day!”
* Add at least 2 useful comments to your code.

**Code Template**

**public** **class** VariablNames {

**public** **static** **void** main(String[] args) {

}

}