

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:
 - a) ?myName
 - b) 12Car
 - c) \$money
 - d) int
2. Declare a variable of type `int` to hold the student grade.
3. Declare a variable to hold the constant value for interest rate of 2.5.
4. Declare a `String` variable to hold the name John.
5. What is the value of `z` after the following code is executed?

```
int x = 9, y = 4;  
double z = x/y;
```
6. What is the value of `z` after the following code is executed?

```
int x = 9;  
double y = 4, z = x/y;
```
7. What is the value of `z` after the following code is executed?

```
int x = 9;  
double y = 4, z = x%y;
```
8. Will the following code compile:

```
final int X=10;
```

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WorkSheet1

Module 1

X=9;

9. 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(____);
```

10. In every java program :

- There must be at least two variables declared
- There must be a method called "main"
- 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) {

    }

}
```