

AP CS: Lesson 5: Parameters

Name: _____ Period: ____

Java Syntax:

Method creation:

```
public static void name(type <parameter name>,..., type <parameter name>) {  
    statement;  
    ...  
    statement;  
}  
  
name(); // Calling a Static Method with no parameters  
name (value, value, ..., value); // Calling a Method with parameter(s)
```

Primitive Types: (Review)

```
int name = <value>; // create an Integer  
double name = <value>; // create an Double - real numbers  
char name = '<single character>'; // create a single character  
boolean name = true; // creates a Boolean of true or false.
```

Other Types:

```
String name = "<series of characters>"; // creates a String and assigns value
```

Class Notes:

AP CS: Lesson 5: Parameters

Parameter Mystery (taken from: Building Java Programs, by Stuart Reges and Marty Stepp – online Chapter 3 Lab Exercises)

1. What output is produced by the following program?

```
public class ParameterMystery1 {  
    public static void main(String[] args) {  
        int a = 4, b = 7, c = -2;  
        mystery(a, b, c);  
        mystery(c, 3, a);  
        mystery(a + b, b + c, c + a);  
    }  
  
    public static void mystery(int c, int a, int b) {  
        b -= 2;  
        c = a + 5;  
        a = a - b;  
        System.out.println(b + " + " + c + " = " + a);  
    }  
}
```

2. What output is produced by the following program?

```
public class ParameterMystery2 {  
    public static void main(String[] args) {  
        String major = "fred";  
        String fred = "computer";  
        String computer = "department";  
        String department = "student";  
        String student = "major";  
  
        sentence(major, fred, department);  
        sentence(student, computer, fred);  
        sentence("fred", "honor", computer);  
        sentence("foo", "bar", "baz");  
        sentence(fred, computer, student);  
    }  
  
    public static void sentence(String major, String fred, String foo) {  
        System.out.println("Many a " + foo + " in the " + fred + " of " + major);  
    }  
}
```

3. What output is produced by the following program?

```
public class ParameterMystery3 {  
    public static void main(String[] args) {  
        String a = "king";  
        String b = "two";  
        String c = "queen";  
        String two = "five";  
  
        sentence(a, b, c);  
        sentence("b", c, c);  
        sentence(two, "two", a);  
        sentence(c, a, b);  
        sentence(two, "queen", b);  
    }  
  
    public static void sentence(String b, String c, String a) {  
        System.out.println("a " + c + " and a " + a + " beats a " + b);  
    }  
}
```