

10-Question Quiz

Name: _____ Hr: _____

1. What does the value of `test1`?

```
int test1 = 3 / 2 + 1 * 5;  
  
// test1 = _____
```

2. What does the value of `test2`?

```
int test2 = (7 - 2 * 3) % 4;  
  
// test2 = _____
```

3. What is the value of `finalVal` after the following code has run?

```
int valOne = 6;  
double valTwo = 2.5;  
  
int finalVal = (int)(valOne - valTwo);  
  
  
  
// finalVal = _____
```

4. What is the value of `quizVal` after the following code has run?

```
int quizVal = 6;  
  
if(quizVal - 1 == 5){  
    quizVal *= 2;  
} else {  
    quizVal /= 3;  
}  
  
  
// quizVal = _____
```

5. What is the value of `newVal` after the following code has run?

```
int newVal = 3;  
  
if(newVal >= 4){  
    newVal = newVal * 2;  
} else {  
    newVal++;  
    if(newVal < 4){  
        newVal = newVal * 3;  
    } else {  
        newVal++;  
    }  
}  
  
// newVal = _____
```

6. What is the value of `myInt` and `yourInt` after the following code has run?

```
int myInt = 7;  
int yourInt = 3;  
  
if (myInt % yourInt == 2){  
    myInt -= yourInt;  
} else {  
    yourInt += myInt;  
    myInt += yourInt;  
}  
  
  
//myInt = _____ yourInt = _____
```

7. Write a line of code that declares a variable of type `int` called `foo`.

8. The first line of a program has been written below. Add to the code so if `randInt` is odd, the value of `randomInt` is increased by 1.

```
// Initializes randomInt to a random number between 1 and 9;
int randomInt = (int)(Math.random() * 9) + 1

// your code goes here
```

9. The following code is supposed to compare the values of `bop` and `pop`, where `bop`, `pop` and `mop` are ints that have been declared and initialized earlier in the program. If they `bop` and `pop` equal, they should be multiplied together and stored in `mop`. Otherwise, if `bop` is greater than `pop`, then the value of `bop` should decrease by 1. Otherwise, if `bop` is smaller than `pop`, then the value of `bop` should increase by 1.

```
if(bop = pop){
    mop = bop * pop;
} else if(bop > pop){
    bop--;
}
bop ++;
```

There are two errors in this code. Describe what they are and how to fix them.

10. Imagine earlier in a program a variable `waterTemp` is declared as a double. Write code that would determine if the temperature of the water is freezing, boiling, or neither. Your code should print "Water is freezing", "Water is boiling" or "Water is neither freezing nor boiling" depending on the value stored in `waterTemp`.



