

## 1. Given the following variable declarations:

```
int x = 4;
int y = -3;
int z = 4;
```

## What are the results of the following relational expressions (true or false)?

```
x == 4           x == y           x == z           y == z
x + y > 0       x - z != 0       x * (y + 2) > y - (y + z) * 2
y * y <= z      y / y == 1
```

## 2. What is printed when the following code runs:

```
int temp = 65;
if(temp>74)
    System.out.println("It is not cold.");
    System.out.println("Turn on the fan.");
```

## 3. What is wrong with this if statement?

```
if cost = 5;
{
    System.out.println("the cost is 5");
}
```

## 4. Assume you have two integer variables a and b properly initialized. Write an if statement that checks if a is greater than b and prints "yes" if so.

## 5. What is printed when the following code runs?

```
int a = 7;
int b = 9;
if(a>b)
    System.out.println("A");
    System.out.println("B");
if(b==a)
    System.out.println("C");
    System.out.println("D");
if(a!=b)
{
    System.out.println("E");
    System.out.println("F");
}
```

## 6. What is printed when the following code runs?

```
int score = 93;
if (score >= 90) grade = "A";
if (score >= 80) grade = "B";
if (score >= 70) grade = "C";
if (score >= 60) grade = "D";
System.out.println(grade);
```