

CPS 210 - Lab Quiz 7

Name: _____

1. Write a program that reads in 10 scores using Scanner and determines how many scores are above the average.

- **HINT:** Use a loop to ask for the 10 values and add up the numbers as you ask for the values. Determine the average. Then use another loop to check to see how many numbers are above the average. Below is a sample run:

```
Enter 10 scores: 23 45 67 98 34 78 87 78 98 67
The average is 67.5
5 scores are above the average
```

```
Scanner sc = new Scanner(System.in);
double[] scores = new double[10];
System.out.print("Enter 10 scores: ");
double sum = 0;
for(int i = 0; i<scores.length; i++) {
    scores[i] = sc.nextDouble();
    sum+=scores[i];
}
```

```
double avg = sum/scores.length;
int count = 0;
for(int i = 0; i<scores.length; i++) {
    if(scores[i] > avg) {
        count++;
    }
}
```

```
System.out.println("The average is " + avg);
System.out.println(count + " scores are above the average");
```

- 1 point for Scanner
- 1 points for correct set up of array
- 3 points for asking for 10 values
- 1 point for getting average
- 3 points for finding count
- 1 point for printing the count

Partial credit on everything okay!