

Northeastern Illinois University
CS 200: Programming I
Professor Yehuda Gutstein
Homework

Please zip all HW files, including source files (.java) and results (.txt) for this week in ONE folder and submit on D2L.

HW is due prior to the start of the next class.

At the beginning of each .java file, please include (in comments):

```
//CS200
//(insert here: Semester, Year)
//Student Name
//Instructor: Y. Gutstein
//HW #x: (Name of HW)
//Due: (insert due date here)
//File name: (Insert FileName).java
```

HW #1: Numeric Expressions and Input

I love pizza! Determine the exact number of square inches of pizza I will get from 2 - 7" pizzas and then from a 14" pizza, letting me know the outcome of your computations.

Then, determine how many more square inches of pizza I will get if I order 1 - 14" pizza, instead of 1 - 7" pizza, again, letting me know the outcome of your computations.

Also, if I order the 14" pizza, beside myself, I will have to share it equally with 5 friends. Exactly how much pizza will I get to eat?

Note: Make sure your displayed outcomes are user-friendly.

```
//CS200
//(insert here: Semester, Year)
//Instructor: Y. Gutstein
//HW #x: (Name of HW)
//Due: (insert due date here)
//File name: Pizza.java

public class Pizza {
    public static void main(String args[ ]) {
        //declare all needed variables first
        //complete necessary computation processes
        //display user friendly outcomes to solve the problem
        System.out.println();
        //System.out.println() is to display output to the
```

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```
screen
/*data placed between quotes is called a string
literal, + concatenates , to display variable values -
do not use quotes*/
}
}
```

Hints:

- What is more accurate-- an int, float, or double?
- + concatenates string literals & variable values to create detailed output.
- There are two features of the Math class that will come in handy for this assignment, Math.pow and Math.PI
- How do you determine the area/square inches of a circle?

HW #2: Numeric Expressions and Input

Write a program that asks the user to enter their height in inches. The program should then convert the inches to feet and print out the number of feet and the remaining inches (Note: 1 foot = 12 inches). Two sample runs have been provided.

```
Enter your height in inches: 63
That is 5 feet and 3 inches.
```

```
Enter your height in inches: 72
That is 6 feet and 0 inches.
```

```
//CS200
//(insert here: Semester, Year)
//Instructor: Y. Gutstein
//HW #x: (Name of HW)
//Due: (insert due date here)
//File name: HeightInches.java

public class HeightInches {
    public static void main(String args[ ]) {
        //program goes here
    }
}
```