

Comprehensive Lesson

Hello again!

Overall Review!

In the last couple of lessons, we learned about different programming concepts in Java, like **variables, conditionals, print/return statements, loops, and methods**. Today we're going to combine these concepts together and write full programs!

Our Problem

Let's say that we're all really hungry, and want to share some pizzas. We know that we can eat 250 sq. inches of pizza, but the pizza place we're ordering from only uses pizza diameters! We're going to write a code that will tell us if we will have enough pizza to eat for three pizza diameter sizes: 12 inches, 16 inches, and 18 inches.

Before we code... Pseudo-Code!

- List out the steps in procedure-form on how our program will progress.
- This should be a brainstorm session where you list out your logic that you will use to write your code.

Variables

What variables would we need to use?

Methods

If we were to use two separate methods in our code, what would each do?

Conditionals + Print Statements

What conditionals will we have within our methods?

Let's Write Our Code!

Open an online Java compiler and begin to write the code! After we're done, we'll go through the code together, and see what we got right and what we were confused about.

Extension

If we want 7 people to eat a pizza, and we know that each person can eat 41 square inches of pizza, what's the smallest diameter of pizza that we can order? Edit your code and write a new method so that we can use it to find the answer.

Answers:

Homework

Finish your pizza problem! Our second method will be a void method called `canEat()` and will print whether or not we can eat the pizza. Test these methods in a main method with the diameters 12 in, 16 in, and 18 in. Remember that we need 250 sq. inches of pizza!!!