

## Java I Exam #1 Toolkit Exam Covers Ch 1 - 8 (while loops only)

This is a **starting point** to help you study and get prepared for your first exam. The exam is open book/notes. You will not be able to use your computer. I would recommend that you have your Exercises and any class handouts available to reference during the exam.

Important topics:

- v Fundamental elements of a Java applet
  - o Class, method, variable naming conventions
  - o Import statements
  - o Basic graphics, changing colors, paint method
  - o Primitive data types
  - o Java Style Manual recommendations
- v Calculations and Operators
  - o Integer vs. Float arithmetic
  - o Casting
- v Methods
  - o Creating a method
  - o Formal vs. Actual parameters
  - o Returning a value from a method
  - o Review exercises 5.2 and 5.9
- v Events
  - o Using scollbars, buttons, labels, and textfields
  - o Necessary components: see page 66 as a start
  - o Random number generator
- v If Statements and Switch Statements
  - o Syntax
  - o Valid comparison operators
  - o && vs ||
  - o Boolean variables
- v While Loops
  - o Syntax

- Number of iterations
- Infinite Loop possibilities

@pbaker