

## Quick Review Points

1. Be able to read user input from standard input and do something with it using Scanner
2. Be able to evaluate expressions using Java operators, handling precedence and association rules as necessary (the table for these rules will be provided)
3. Understand the rules for the == operator when applied to Strings; understand the concept of "String pool" in memory and how to add a String to the String pool using the intern() function of String
4. Know how Comparable interface works; in particular, be able to work with the default implementation of Comparable in the String class (in other words, how are Strings compared by default?).
5. Know the basic functions on a String, like concat, substring, charAt (all the methods listed in Lesson 3)
6. Know how to use split() on a String, specifying multiple delimiters.
7. Be able to write the code for finding the minimum element in an array of orderable objects or primitives.
8. Know how to define your own enum and how to use enums as constants in a program
9. Know how to make a class immutable – you need to know the four requirements.
10. Know how to do a polymorphic implementation of an operation applied to multiple subclasses of a given type. The typical example given in class is to compute and display areas of geometric figures stored in an array as subclasses of a class (or interface) ClosedCurve.
11. Know how to use Comparable to define an order relationship on a class (like Person or Employee) to support sorting.
12. Be familiar with the examples given in class illustrating how Java passes arguments by value and be able to answer questions that test this knowledge.
13. Be familiar with the order of initialization that occurs when a subclass constructor is called.
14. Be familiar with the rules governing nested classes.
15. Be able to override equals using the instanceof strategy, the same classes strategy, or instead, to replace inheritance by composition.
16. Be able to implement an event handler (listener) in a UI (an implemented JFrame).