Quiz 1   CISC 370
06/13/2005

Name:_____

1. (3 pts) Fill in the blanks:

The _____(a)_ command generates the

_____(b)_ that is stored in a file with a _____(c)_

extension.   To execute a Java program, you execute the _____(d)_

command, which runs the _____(b again)_, i.e., the virtual

machine code.

2. (3 pts) What are two benefits of using Java to write programs?

3. (3 pts) Label the following line of code with the term that describes it, e.g.,
    chicken is a(n) _____:

           chicken.setName("Foghorn");

4. (2 pts) What does the "**static**" keyword mean in a Java program? Give one
    example of when you would use the static keyword.

5. (4 pts) What is **encapsulation** in terms of writing object-oriented programs? Why is it an important concept in this class?

6. (5 pts) Complete the following code:

```java
public class Rectangle {
    private double width;
    private double height;

    public Rectangle(double width, double height) {
        this.width = width;
        this.height = height;
    }

    public double area() {
        return width * height;
    }

    public static void main(String[] args) {
        // initialize size from user input
        int size = Integer.parseInt( args[0]);

        Rectangle[] rectangles = new Rectangle[size];

        // imagine: initialize rectangles from user input
        …

        // YOUR CODE HERE
        // find the average area of all rectangles in array




    }
}
```