Signature

CSE 11	Name
Quiz 2	
Fall 2008	Student ID

cs11f____

This quiz is to be taken **<u>by yourself</u>** with closed books, closed notes, no calculators.

(Partial) Operator Precedence Table	

Operators			Associativity	
*	/	%		left to right
+	-			left to right
<	<=	>	>=	left to right
==	!=			left to right
&&				left to right
				left to right
=				right to left

1) What is the value of amt for each of the expressions below? Note the type declarations for each. To represent an integer value, do not write a decimal point (for example: 99 or 42). To represent a double value, write a decimal point and one digit to the right of the decimal point (for example: 99.0 or 42.5).

int amt = 10; amt = amt + amt * (5 / 100); int amt = 10; amt = (int) (amt + amt * (5 / 100.0));

double amt = 10; amt = amt + amt * (5 / 100); double amt = 10; amt = amt + amt * (5 / 100.0);

2) Assume a program contained the following declarations:

private Location loc1 = new Location(37, 24); private Location loc2 = new Location(37, 24); private Location loc3 = loc1;

What result would be produced by the expressions

loc1 == loc2
loc1 == loc3
loc2.equals(loc1)
loc3.equals(loc1)

3) What is the result of each of the following expressions

2 + 3 + "4" "2" + 3 + 4 4) What is the equivalent Java expression for the following such that no ! operators are used?

!($x \ll 0 \mid x > 15$)

5) What output is produced with the following code fragment? Assume method1() is invoked as

```
Quiz2 q2 = new Quiz2();
q2.method1( 5 );
```

```
public class Ouiz2
{
                                           // Line 3
  private int a;
  public void method1( int x )
  {
                                           // Line 7
    int a;
    int b = x;
    a = b * 2;
    this.a = b * 3;
    System.out.println( "a = " + a );
    System.out.println( "b = " + b );
    System.out.println( "this.a = " + this.a );
    System.out.println( "method2() result = " + method2( x ) );
    System.out.println( "this.a = " + this.a );
  }
  private int method2( int x )
  {
    int a = x;
    int b = this.a;
    b = b + 2;
    System.out.println( "a = " + a );
    System.out.println( "b = " + b );
    System.out.println( "this.a = " + this.a );
    this.a = b + 2;
    return a + 2;
  }
}
```

<u>Output</u>:

```
a = ______
b = ______
this.a = ______
a = ______
b = ______
this.a = ______
method2() result = ______
this.a = ______
```

What is the initial value of a on Line 3? _____

What is the initial value of a on Line 7?