

Signature _____

CSE 11

Name _____

Quiz 1

cs11f _____

Fall 2009

Student ID _____

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

(Partial) Operator Precedence Table

Operators			Associativity	
!	++	-- (pre & post inc/dec)	right to left	
*	/	%	left to right	
+	-		left to right	
<	<=	>	>=	left to right
==	!=		left to right	
&&			left to right	
			left to right	
=			right to left	

1) Which of the following are not valid Java identifiers? (Circle your answer(s).)

- | | | | |
|-----------|-------------|-------------|-------------|
| this&that | thisRthat | This2That | integer |
| This-That | this_R_that | 2_This_That | this1+that1 |

2) Using the operator precedence table above, evaluate each expression and state what gets printed. Remember short-circuit evaluation with && and ||.

```

int a = 5;
int b = 2;
int c = -2;
boolean exp1 = a + b * c <= a + c * b;           _____ (value of exp1)
boolean exp2 = !(c + a > b);                     _____ (value of exp2)
boolean exp3 = b - a >= c;                       _____ (value of exp3)
boolean z = exp1 && exp2 || exp3;
System.out.print( "z = " + z );                  _____
z = !exp3 || exp2 && exp1;
System.out.print( "z = " + z );                  _____
b = --b + ++a % 4 * c++ * 2;
System.out.print( "a = " + a );                  _____
System.out.print( "b = " + b );                  _____
System.out.print( "c = " + c );                  _____

```

3) In general, you should define instance variables to be (Circle the letter of the correct answer):

- A. public
- B. private
- C. primitive data types
- D. reference data types

(Continued on other side)

4) Which of the following Java constructs would most likely be considered a mutator? (Circle correct letter)

- A. canvas.getWidth()
- B. sun = new FilledOval(50, 150, 100, 100, canvas)
- C. greeting.setText("Hello")
- D. sun.moveTo(50, 150)

5) What gets printed with each of the following statements?

```
int a = 1;  
int b = 2;  
int c = 5;
```

```
System.out.println( a + ( b + c ) + " = " + ( a + b ) + c );
```

```
System.out.println( ( a + b + c ) + " = " + a + b + c );
```

```
System.out.println( ( a + b ) + c + " = " + a + ( b + c ) );
```

6) What values of a and b would result in the following code printing "D"?

```
int a = _____;
```

```
int b = _____;
```

```
if ( ( a > 0 ) || ( b > 0 ) )  
{  
    if ( a > b )  
    {  
        System.out.println( "A" );  
    }  
    else  
    {  
        System.out.println( "B" );  
    }  
}  
else if ( ( a < 0 ) || ( b < 0 ) )  
{  
    System.out.println( "C" );  
}  
else  
{  
    System.out.println( "D" );  
}
```