AP Computer Science A
Ticket Out the Door
Set 7: Boolean Operators

Name _____ Period _____

Skill 7.1 Exercise 1

Evaluate whether each of the following is true or false for the conditions below,
`x = 11 and y = 5`

`(( x < 10 ) AND ( y = 6 )`	
`(( x < 10 ) AND ( y = 5 )`	
`(( x > 10 ) AND ( y ≠ -3 )`	
`(( x < 10 ) OR ( y = 5 ))`	
`(( x > 10 ) OR ( y = 5 ))`	

Skill 7.2 Exercise 1

Write each of the following expressions using proper java syntax

`(( x < 10 ) AND ( y = 6 )`	
`(( x < 10 ) AND ( y = 5 )`	
`(( x > 10 ) AND ( y ≠ -3 )`	
`(( x < 10 ) OR ( y = 5 ))`	
`(( x > 10 ) OR ( y = 5 ))`	

Skill 7.3 Exercise 1

Indicate what is printed

`System.out.println(false && false);`	
`System.out.println(true && false);`	
`System.out.println(false || true);`	

Skill 7.4 Exercise 1

Refer to the following code to evaluate what is printed.

```
int x = 79, y = 46, z = -3;
double d = 13.89, jj = 40.0;
boolean b = true, c = false;
```

`System.out.println(true && !false);`	
`System.out.println(!b || c);`	
`System.out.println( ( jj = = 40 ) && !false);`	
`System.out.println( x != 3 );`	
`System.out.println( !(x != 3) );`	

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`System.out.println(c || !(d > 0));`	
`System.out.println( !!true );`	

Skill 7.5 Exercise 1
Declare and initialize an integer a. Declare and initialize a different integer b. Declare a boolean c. Initialize c to !(a = = b). What is the value of c? True or false?

Skill 7.6 Exercise 1	

Refer to the following code to evaluate what is printed.
 	
    `int x = 79, y = 46, z = -3;`
    `double d = 13.89, jj = 40.0;`
    `boolean b = true, c = false;`	

`System.out.println( b && c || !c);`	
`System.out.println( x == y && !(z < 0) || b && c);`	
`System.out.println( x != y && y==z && b || !c);`	
`System.out.println( x > y || c || b && jj%4 != 0);`	