Name ______ Period ____

Skill 28.01 Exercise 1				
Refer to the following variable declarations, then indicate the output for each console.log()				
var a = 8;				
var b = 9;				
var c = a;				
<pre>var d = "hello";</pre>				
<pre>var e = "goodbye";</pre>				
<pre>console.log(a == b);</pre>				
<pre>console.log(a > b);</pre>				
<pre>console.log(a < b);</pre>				
<pre>console.log(d == e);</pre>				
<pre>console.log(d > e);</pre>				
-				

Skill 28.02 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)						
$((x > 10) AND (y \neq -3)$						
((x < 10) OR (y = 5))						
((x > 10) OR (y = 5))						

Skill 28.02 Exercise 2

Refer to the following variable declarations, then (a) Re-write each statement using proper JavaScript syntax and (b) indicate whether the statement evaluates to *true* or *false*

```
var x = 79;
var y = 46;
var z = -3;
var w = 13.89;
var y = 40.0;
var t = true;
var f = false;
```

Statement	Proper JavaScript syntax	T/F
((x < 10) AND (y = 46)		
((x > 10) AND (y = 46)		

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$((x > 10) AND (z \neq -3)$	
((x > 10) OR (y = 5))	
true AND false	
true AND !false	
!t OR f	
x ≠ 3 OR f	
y/2 > w AND w ≠ x	

Skill 28.03 Exercise 1

Refer to the following code to evaluate what is printed.

var
$$x = 79$$
, $y = 46$, $z = -3$;
var $d = 13.89$, $jj = 40.0$;
var $b = true$, $c = false$;

console.log(b && c || !c);

console.log(x == y && !(z < 0) || b && c);

console.log(x != y && y==z && b || !c);</pre>

console.log(x > y || c || b && jj%4 != 0);

Skill 28.04 Exercise 1 Simplify the following !(A > B || B != A) !(A == B || (B >= C || B < A))</td>

Skill 28.04 Exercise 2

Which of the following Boolean expressions are equivalent to the expression $num \ge 15$?

Select two answers.

- A (num > 15) AND (num = 15)
- B (num > 15) OR (num = 15)
- C NOT (num < 15)
- D NOT (num < 16)

AP Computer Science Principles Ticket Out the Door Set 28: Boolean Expressions

Nan	ne			Period
		te that produces an output of fall AND gate with inputs P and Q ?	se only when both of its two inputs a	re true. Otherwise, the gate produces an output of true. Which of the following Boolean
(A (NOT P) AND (NO	T Q)		
	B (NOT P) AND Q			
(C NOT (P AND Q)			
	D NOT (P OR Q)			
G1	211 40 04 E	2		
	ill 28.04 Exercise		massion has an the ve	dues of input 1 and input?
In		-	I	llues of input1 and input2
	Value of input1	Value of input2	Value of expression	_
	true	true	false	_
_	true	false	true	
	false	true	true	
	false	false	true	
Wı	ite an expression	in terms of input1 a	and input2 that would	produce the output.
CI.	:11 20 05 E	1		
	ill 28.05 Exercise		t loost 16 wasts ald to	drive a cor and must be at least 18 years ald to year
			person as an integer.	drive a car and must be at least 18 years old to vote.
111	e variable age rep	resents the age of a	person as an integer.	
Wı	ite a function that	accepts age as a pa	arameter and returns t	rue if the person is old enough to drive but not old
		eturns false otherw		
Sk	ill 28.05 Exercise	2		
A programmer wants to determine whether a score is within 10 points of a given target. For example, if the				
target is 50, then the scores 40, 44, 50, 58, and 60 are all within 10 points of the target, while 38 and 61 are not.				
Write a function that accepts score as a parameter and returns true if and only if the score is within 10 points of the target?				
<u> </u>				

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