

Name \_\_\_\_\_ Period \_\_\_\_\_

Skill 6.1 Exercise 1	
Refer to the following variable declarations, then indicate what is printed	
<pre>a = 8 b = 9 c = a d = "hello" e = "goodbye"</pre>	
print(a == b)	
print(a > b)	
print(a < b)	
print(d == e)	
print(d > e)	

Skill 6.2 Exercise 1	
Code	Output
print(True and True)	
print(True and False)	
print(False or False)	
print(True or False)	

Skill 6.2 Exercise 2	
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 ))	

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Skill 6.3 Exercise 1		
Refer to the following variable declarations, then (a) Re-write each statement using proper Python syntax and (b) indicate whether the statement evaluates to <i>true</i> or <i>false</i>		
<pre>x = 79 y = 46 z = -3 w = 13 y = 40</pre>		
Statement	Proper Python syntax	T/F
(( x < 10 ) AND ( y = 46 )		
(( x > 10 ) AND ( y = 46 )		
(( x > 10 ) AND ( z ≠ -3 )		
(( x > 10 ) OR ( y = 5 ))		
w*2 > y AND w ≠ x		

Skill 6.4 Exercise 1	
Refer to the following variable declarations to evaluate what is printed	
<pre>x = 79 y = 46 z = -3 a = 13 b = 40</pre>	
Code	Output
print(True & (not False))	
print(not b < 10   a > b)	
print(( b == 40 ) & (not False))	
print(not x != 3 )	
print((a == b)   (not z > 0))	
print(not not not not True)	

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**Skill 6.5 Exercise 1**

Declare and initialize an integer to a  
Declare and initialize a different integer to b.  
Declare a Boolean c  
Initialize c to (not a == b)  
What is the value of c? True or false?

**Skill 6.6 Exercise 1**

When the code segment below is executed, *true* is printed when the user types 5 for the input. Explain.

```
guess = input("Guess my number")#user inputs 5
secret = 10
print(guess > str(secret))
```

**Skill 6.7 Exercise 1**

Refer to the following code to evaluate what is printed. If an error occurs, indicate the error and why it occurs.

```
x = 79
y = 46
z = -3
a = 24.0
b = 7.5
c = 15
```

```
print(a == b and c != b*2 or c < y)
```

```
print( x == y and (not z < 0) or c < z)
```

```
print( x != y and y==z and c*2 == 30 or c != 2)
```

```
print( not(x > y) or c == 3 or c == x and a%2 != 0)
```