

Name _____ Period _____

Skill 4.1 Exercise 1

Refer to the following variable declarations, then indicate what is printed

```
a = 8
b = 9
c = a
d = "hello"
e = "goodbye"
```

<code>print(a == b)</code>	
<code>print(a > b)</code>	
<code>print(a < b)</code>	
<code>print(d == e)</code>	
<code>print(d > e)</code>	

Skill 4.2 Exercise 1

Code	Output
<code>print(True and True)</code>	
<code>print(True and False)</code>	
<code>print(False or False)</code>	
<code>print(True or False)</code>	

Skill 4.2 Exercise 2

Evaluate whether each of the following is true or false for the conditions below,

 $x = 11$ and $y = 5$

<code>((x < 10) AND (y = 6))</code>	
<code>((x < 10) AND (y = 5))</code>	
<code>((x > 10) AND (y != 3))</code>	
<code>((x < 10) OR (y = 5))</code>	
<code>((x > 10) OR (y = 5))</code>	

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Skill 4.3 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 *true* or *false*

```
x = 79
y = 46
z = -3
w = 13
y = 40
```

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 4.4 Exercise 1

Refer to the following variable declarations to evaluate what is printed

```
x = 79
y = 46
z = -3
a = 13
b = 40
```

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 4.5 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 4.6 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 4.7 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)
```