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

Skill 19.01 Exercise 1		
What is the purpose of variables in computer programs?		
What type of data is stored in each of the variables below?		
var a = 10;		
<pre>var b = "hello!";</pre>		
<pre>var c = true;</pre>		
var d = [1, 2, 3, 4, 5]		
var e = 3.14;		
Skill 19.02 Exercise 1		
You want to create a number guessing game. When the game loads, a secret number will be generated. Then the user will be provided 3 guesses to identify the number. What variables would you need to store the necessary data for the game?		
For each variable, write statements to show how you would declare and/or initialize the variable		

Skill 19.03 Exercise 1		
Indicate whether each of the following variable declarations are legal or illegal. If it is illegal, indicate why.		
code	legal/illegal	
var 1231abc;		
var big-number;		
var name2;		
var myVar*2;		
2 = var myNum;		

var var;

Skill 19.04 Exercise 1		
For each of the following indicate what is printed as the output. If an error occurs, indicate the error.		
Code	Output	
var x = 10		
var y = x		
x = y		
<pre>console.log(y)</pre>		
var x = y = z = 5		
<pre>console.log(x)</pre>		
<pre>console.log(y)</pre>		
console.log(z)		
var a = 5		
console.log(a)		
var b = 10		
console.log(b)		
var c = a		
<pre>console.log(c)</pre>		
a = b		
b = c		
<pre>console.log(a)</pre>		
console.log(B)		
<pre>var score = 10;</pre>		
<pre>var score = 5;</pre>		
<pre>var score = 11;</pre>		
console.log(score)		

Indicate what is printed for ea	ach of the following. If an error occurs, indicate the error and why.
var x = 2 $var y = 3$ $var z = x + y$	
<pre>x = x + z console.log(x+1)</pre>	
<pre>var x = 1 var y = 5 var z = x - y x = x - z console.log(x-1)</pre>	
<pre>var x = 2 var y = 3 var z = x ** y x = x * z console.log(x*2)</pre>	
<pre>var x = 9 var y = 3 var z = x/y x = x/z print(x/3)</pre>	
<pre>var x = 11 var y = 3 var z = x%y x = x%z print(x%2)</pre>	

Skill 19.06 Exercise 1		
Indicate the variable type printed for each statement		
console.log(3.14)		
console.log ("four")		
console.log( "6.0")		
console.log(-8*2)		
console.log(10/5)		
console.log(-22345)		
console.log( "5")		

# Skill 19.07 Exercise 1

Write code to

- (a) Concatenate two strings 'Hello' and 'World' inside a console.log statement
- (b) Concatenate the strings 'Hello' and 'World' inside a console.log statement, but make sure to use string concatenation to also include a space (' ') between the two words.

# Skill 19.08 Exercise 1

Indicate the output of the following

```
console.log(" Blah "+ 5+10 + " Blah Blah " + 5+10);
console.log(5*10 + " Blah Blah " + 5*10);
console.log(" Blah "+ 10-5 + " Blah Blah " + 10-5);
```

### Skill 19.08 Exercise 2

The code does not work as intended. Fix the code.

```
var x = "5";
var y = "5";
console.log(x + y - 10);
```

## Skill 19.09 Exercise 1

Write code to prompt a user for 3 pieces of information. Concatenate the pieces of information into a new variable called result, the print result.

# Skill 19.10 Exercise 1 Re-write the following in pseudocode, var x = y = z = 5 console.log(x) console.log(y) console.log(z)