Course	Name: Date:
Part	I: Intro (4)
0. Whe	adding JavaScript to a web page, where can you put your JavaScript code?
[ ]	In a separate file that ends in `.js`
[ ]	<pre>Inside `<link/>` tags at the `<head>`</head></pre>
[ ]	<pre>In `<script>` just before the closing `</body>`</pre></td></tr><tr><th>[ ]</th><td>Both (0) and (2)</td></tr><tr><th>1. Why</th><th>should you put the HTML `<script>` before the closing `</body>` tag?</th></tr><tr><th>[ ]</th><td>It's the only way to add Javascript to HTML</td></tr><tr><th>[ ]</th><td>You shouldn't place your `<script>` tag before the closing `</body>`</td></tr><tr><th>[ ]</th><td>It's recommended because that way the html from your page will be loaded before the Javascript code is read</td></tr><tr><th>[ ]</th><td>Otherwise you will not be able to debug your code</td></tr><tr><th>2. Wha</th><th>t will `console.log("Westernization complete");` do?</th></tr><tr><th>[ ]</th><td>Add a paragraph to the page with the text "Westernization complete"</td></tr><tr><th>[ ]</th><td>Print the text "Westernization complete" to the javascript console</td></tr><tr><th>[ ]</th><td>Create a variable with the string "Westernization complete"</td></tr><tr><th>[ ]</th><td>Return the string "Westernization complete" from the function</td></tr><tr><th>3. Whi</th><th>th of the following JavaScript commands tells a browser to open a dialog box with a</th></tr><tr><th>messag</th><th>?</th></tr><tr><th>[ ]</th><td><pre>document.write()</pre></td></tr><tr><th>[ ]</th><td>window.alert()</td></tr><tr><th>[ ]</th><td><pre>console.log()</pre></td></tr><tr><th>[ ]</th><td>window.prompt()</td></tr></tbody></table></script></pre>

Part II: Variable (5)	
0. Which of the following is **NOT** a valid variable name in JavaScript??	
[ ] stepsToFinsh	
[ ] steps_to_finish	
[ ] steps-to-finish	
[ ] stepstofinish1	
1. To **declare** a variable with the name `score` in Javascript we can write:	
[ ] \$score	
[ ] variable score	
[ ] def score	
[ ] var score	
2. What is the difference between `let` and `const`	
[ ] `let` only saves a variable for 2 minutes, `const` saves the variable until the progra stops running	am
[ ] `let` allows us to re-assign a variable, `const` will throw an error if we try to reassign the variable	
[ ] There is no such keyword `let` in javascript, `const` will throw an error if we try to reassign the variable	Э
[ ] `let` works with any type of variable, `const` only works with functions	
3. Which of the following declares a variable named `count` and stores the number `10` in it?	

```
[ ] let count = 10
[ ] count = 10
[ ] const count = 10
[ ] Both (0) and (2)
```

4. To \*\*assign\*\* a variable in Javascript, we use:

```
[ ] /
[ ]:
[ ] =
[ ] Both (0) and (2)
```

Part III: St	ring (	5)	
--------------	--------	----	--

Θ.	Which	of the following is a valid string:
[	]	'You've got to see this'
[	]	"You've got to see this"
[	]	"You've got to see this'
[	]	None of the above
1.	To es	cape a character in JS we would write:
[	]	`It\${'}s such a boring day`
[	]	'It\'s such a boring day'
[	]	'It's such a boring day'
[	]	'It"'"s such a boring day'
2.	То ри	t two strings together in JS we can use the following operator between them:
[	]	'Hello' ++ ' World'
[	]	'Hello' . ' World'
[	]	'Hello' += ' World'
[	]	'Hello' + ' World'
3.	Strin	g **interpolation** is another way to put two strings together in ES6. How can we print
"Н	ello M	orld!", assuming that we have declared a variable `let who = "World"`?
[	]	`Hello who`
[	]	"Hello 'who'"
[	]	`Hello \${who}`
[	]	"Hello \${who}"
		ing that we have declared a variable `let message = "What a GREAT day!"`, which statement urn `'what a great day!'`?
[	]	lowerCase(message)
[	]	message.toLowerCase()
[	]	toLowerCase(message)
г	1	massage lower(ase()

[ ] true [ ] false

Pá	art	IV: Number (6)
0.	Which	n of the following adds 15 to `sum` and reassigns the result back to `sum`?
[	]	sum += 15
[	]	sum + 15
[	]	sum = sum + 15
[	]	Both (0) and (2)
1.	`%` i	is a mathematical operator in JS
[	]	true [ ] false
2.	To mu	ultiply and divide numbers in Javascript we use:
[	]	`X` for multiplication, `/` for division
[	]	`/` for multiplication, `*` for division
[	]	`*` for multiplication, `/` for division
[	]	`*` for multiplication, `%` for division
3.	Which	n of the following JavaScript methods takes a string and tries to convert it to a float?
[	]	parseInt()
[	]	parseFloat()
[	]	Number.toFixed()
[	]	Math.round()
4.	Math.	.ceil(5.2) will return:
[	]	0.2
[	]	6
[	]	5
[	]	NaN
5.	parse	eInt() and parseFloat() do the same thing

## Part V: Boolean (10)

By each expression below, mark if it's `true` or `false`

	tr	ue	fa	lse
5 > 2	[	]	[	]
'a' === 'A'	[	]	[	]
'hello' < 'world'	[	]	[	]
1 === 1 && 2 !== 2	[	]	[	]
1 === 1    2 !== 2	[	]	[	]
!false	[	]	[	]
undefined	[	]	[	]
3 % 3 === 0	[	]	[	]
score && !score	[	]	[	]
4 <= [1, 2, 3, 4].length	[	]	[	]

## Part VI: Conditionals and Loops (Program Flow) (8)

0. You must add an `else` clause to a conditional statement.

```
[ ] true [ ] false
```

When a browser runs the pieces of code listed below, what will the user see?

#### Question 1

```
let lives = 0;

if (lives === 0 ) {
    alert('The game is OVER!');
} else {
    alert('I guess you\'re still alive');
}
```

```
[ ] An alert dialog that says 'I guess you're still alive'
[ ] This is not a valid conditional statement
[ ] An alert dialog that says 'The game is OVER!'
[ ] Nothing, this code will not run since `alert()` is not a function
```

#### Question 2

```
let lives = 0;
let score = 10;

if ( score < 5 ) {
    alert('Not quite, better luck next time.');
} else {
    alert('You passed.');
} else if ( score > 7) {
    alert('Good job!');
}
```

```
[ ] An alert dialog that says 'You Passed.'
[ ] This is not a valid conditional statement
[ ] An alert dialog that says 'Good Job!'
```

- [ ] An alert dialog that says 'Not quite, better luck next time.'
- 3. When should you use loops?
- [ ] When you want to repeat code over and over a certain number of times.
- [ ] When you want to store multiple items in an single variable.
- [ ] When you want to run certain code only when a particular condition is true.
- [ ] When you want to run many lines of code by simply executing a single statement.

#### Example A:

```
let num = 0;
while (num > 20 ) {
  alert(num);
  num += 1;
}
```

#### 4. Why will this loop never run:

- [ ] Because there's a syntax error in this code.
- The counter variable `num` is never increased
- $[ \ ]$  The condition asks if that variable is greater than 20 and the variable is 0
- [ ] Because the code doesn't use a variable named `counter`

Example B:

```
let counter = 0;
while (counter < 5) {
   console.log('The counter is now: ' + counter);
   counter += 1;
}</pre>
```

5. Which of the code blocks below does the same thing as this while statement:

```
[ ] for (let i=1; i < 5; i += 1) {
      console.log('The counter is now: ' + i);
    }
[ ] for (let counter=0; counter < 10; counter += 1) {
      console.log('The counter is now: ' + counter);
    }
[ ] for (let i=0; i < 5; i += 2) {
      console.log('The counter is now: ' + i);
    }
[ ] for (let i=0; i < 5; i += 1) {
      console.log('The counter is now: ' + i);
    }</pre>
```

6. Which of the following statements will make the JavaScript interpreter exit a loop even when the loop condition is still true?

```
[ ] stop;
[ ] return;
[ ] break;
[ ] continue;
```

7. Is it possible for a loop to run forever?

```
[ ] yes [ ] no
```

### Part VII: Function (8)

0. How would you "call" a function named sayHello?

```
[ ] run sayHello();
[ ] sayHello;
[ ] sayHello();
[ ] function(sayHello);
```

1. Which of the following code snippets correctly shows how to create a function named sayHello which opens an alert dialog with the string "Hello" in it?

```
[ ] let function = sayHello() {
        alert("Hello");
    }

[ ] function sayHello() (
        alert("Hello");
    )

[ ] function sayHello() {
        alert("Hello");
    }

[ ] function sayHello {
        alert("Hello");
    }
```

#### Example A:

```
function daysOfWeek() {
  return 'Mon', 'Tues', 'Wed', 'Thurs', 'Fri';
}
const days = daysOfWeek();
```

2. A function can return multiple values at once, like in the example above:

г	- 7	A	г	7	£-1
	- 1	true	I .		false

] The scope in which a function runs.

3. When talking about JavaScript functions, what is a "parameter"?

[	]	A variable in which the function stores information passed to it.
[	]	A value the function returns to the program when the function completes
[	]	A value that you pass to a function when you call the function.

4. Wh	ich o	f the	following	shows	an	example	of	passing	**arguments**	to	а	function?
-------	-------	-------	-----------	-------	----	---------	----	---------	---------------	----	---	-----------

```
[ ] alert("Hello world!")
[ ] function(order){
     return order + 1
     }
[ ] getArea(10, 20, 'sq ft')
[ ] Both (0) and (2)
```

5. When you \*\*declare\*\* a variable inside a function, that variable is only accessible within that function.

[ ] true [ ] false

#### Example B:

```
var message = "Welcome!";
function setMessage() {
  message = "Go away!";
}
setMessage();
alert(message);
```

6. Given the code above, what appears in the alert dialogue when this program runs?

[ ] "Welcome" [ ] "Go Away"

#### 7. What is "scope" in JavaScript?

- [ ] Scope is the way you give and get information from functions.
- [ ] Scope is the context in which a variable can be accessed, such as within a function, or within the global scope of the entire program.
- [ ] Scope is the list of functions in the currently running program.
- [ ] Scope is used to determine when a function returns a value.

## Part VIII: Data Type (20)

By each expression below, write the letter that represents its data type b = Boolean, f = Function, n = Number, o = Object, s = String, u = Undefined

```
[ ] 42
[ ] '42'
[ ] { value: 42 }
  ] function(value){ return value; }
[ ] true
[ ] hello
[ ] "hello"
[ ] 3 + 2 === 5
 ] [1, 2, 3, 4, 5, 6]
[ ] 3 % 3
[ ] `Hello ${6}`
[ ] 3 + "3"
  NaN
  ['good', 'job'].join(' ')
[ ] true && false
[ ] [1].push(6)
[ ] Math
Γ
 ] Math.random()
[ ] "Hello".split('')
[ ] ['a', 'b', 'c'].map(letter => letter + '1')
```

Part IX: Array Basics (5)

0. Given the following array `const numbers = [ 1, 44, 32, 55, 12, 17]; ` which snippet will print out the number 17 to the console?

```
[ ] console.log(numbers[6])
[ ] console.log(numbers)
[ ] console.log(numbers[5])
[ ] console.log(numbers(5))
```

1. Which array method adds an item to the end of an array?

```
[ ] pop()
[ ] push()
[ ] shift()
[ ] unshift()
```

2. Which array method returns the first item from an array and removes it from the array?

```
[ ] pop()
[ ] push()
[ ] shift()
[ ] unshift()
```

#### Example A:

```
let temperatures = [ 16, 34, 26, 19, 10];
console.log( temperatures.indexOf( 19 ) );
```

3. When the following code runs what will appear in the JavaScript console?

```
[ ] -1
[ ] 3
[ ] 0
[ ] 4
```

4. Which of the following is an example of a two-dimensional array?

# Good Luck!