

Review course JavaScript notes at <http://hal.cs.camosun.bc.ca/~langs/comp140-13/lectures/JavaScript/javascript.pdf>

Due: latest by Wednesday Nov 13 at start of class [25 marks]

Place the **most appropriate** answer (A-E) in the corresponding box below.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Σ

- In JavaScript the symbol used to concatenate strings is the _____. (46)
 - question mark
 - period
 - hash sign
 - plus sign
 - ampersand
- The JavaScript built-in function _____ displays a pop-up window containing just an OK button. (31)
 - confirm
 - window
 - alert
 - prompt
 - display
- The JavaScript statement which increments a numeric variable `counter` is _____. (61)
 - `counter++;`
 - `counter + 1;`
 - `counter = counter . 1;`
 - `counter+=;`
 - `1+counter;`
- What text does this JavaScript code display? (62, 64)


```
var today = "Monday";
var yesterday = "Sunday";
if ( today == "Tuesday" && yesterday == "Sunday" ) {
    document.write( "Wednesday" );
}
else {
    document.write( today );
}
```

 - Monday
 - Tuesday
 - Wednesday
 - today
 - nothing
- Variables defined in Java are strongly typed meaning their type cannot change. The JavaScript language by comparison is _____ which can be more flexible. (53,56)
 - compiled
 - static typed
 - weakly typed
 - relational
 - open architecture

6. Which rule is valid for specifying JavaScript variable names? (33)
- a. Variable names cannot contain any digits
 - b. Variable names may not contain spaces
 - c. Variable names must not start with a \$ symbol
 - d. Variable names are not case-sensitive
 - e. Variable names must be capitalized
7. When a variable is declared with the **var** keyword but not assigned an initial value, JavaScript uses ___ as the variable's value. (59)
- a. blank
 - b. ""
 - c. 0
 - d. null
 - e. undefined
8. The JavaScript ____ function displays text and allows the user to enter additional information. (28)
- a. prompt
 - b. show
 - c. present
 - d. display
 - e. post
9. All statements in JavaScript must be terminated with a(n) _____. (21)
- a. closing parenthesis
 - b. space
 - c. semicolon
 - d. colon
 - e. period
10. What statement is true regarding JavaScript defined within HTML? (13)
- a. JavaScript may not define variables.
 - b. JavaScript is defined within the HTML `<script>` element.
 - c. JavaScript variable names must start with a \$ character.
 - d. JavaScript statements start with a [and end with a].
 - e. JavaScript must be entered in upper case text.
11. Since the JavaScript **Date** is an object, you must use the JavaScript keyword ____ when declaring a **Date** object. (135)
- a. start
 - b. create
 - c. para
 - d. object
 - e. new

12. Which JavaScript function code correctly inserts the value of the parameter `myName` into the HTML? (108, 109)

- a.

```
JFunction insert( myName ) [  
    document.write( myName );  
]
```
- b.

```
function insert( myName ) {  
    document.write( myName );  
}
```
- c.

```
function insert( ) {  
    document.write( myName );  
}
```
- d.

```
declare insert( myName ) {  
    document.writeln( myName );  
}
```
- e.

```
function myName:insert() {  
    write( myName );  
}
```

13. JavaScript variable `s1 = "Camosun College"`. What JavaScript code assigns `s2` the string "College"? (48)

- a. `s2 = s1.substr(8);`
- b. `s2 = s1.charAt(8, 7);`
- c. `s2 = s1.replace("Camosun", "College");`
- d. `s2 = s1.substr(7);`
- e. `s2 = s1.substr(7, 7);`

14. Which JavaScript code correctly assigns the variable `tax` to 0.10 if the `amount` is greater than 50, otherwise `tax` should be set to 0? (70)

- a.

```
tax = 0.1;  
if (amount > 50) tax = 0;
```
- b.

```
if (amount >= 50)  
    tax = 0.1;  
tax = 0;
```
- c.

```
if (amount > 50) {  
    tax = 0.1;  
} else {  
    tax = 0;  
}
```
- d.

```
if amount >> 50  
    tax = 0.1;  
else  
    tax = 0;
```

e. if { amount is > 50 } then set tax to 0.1 else tax 0;

15. What does this JavaScript display assuming you enter FISH at the prompt? (77,78)

```
var guess = prompt("Enter type of animal", "cat");
switch ( guess.toLowerCase() ) {
  case "dog":
  case "wolf":
  case "fox":    document.write("trusting");
                  break;
  case "bird":   document.write("adventurous");
                  break;
  case "horse":
  case "cow":    document.write("reliable");
                  break;
  case "cat":
  case "lion":   document.write("hunter");
                  break;
  default:       document.write("unsure");
                  break;
}
```

a. blank
b. fish
c. trusting
d. unsure
e. hunter

16. What does this JavaScript display? (83)

```
var animal = {  name: "lion",
                  sound: "roar",
                  home: "Africa" };
document.write( animal.name
                + " lives in "
                + animal.home
                + " and it can "
                + animal["sound"]);
```

a. lion.name lives in Africa.home and it can sound
b. lion lives in Africa and it can roar
c. animal.name lives in animal.home and it can animal["sound"]
d. {animal.name} lives in {animal.home} and it can "roar"
e. lion lives in Africa and it can

17. Which JavaScript built-in function converts strings ("2.3") into integer values? (57)

- a. varInt
b. int
c. parseFloat
d. parseInt
e. typeof

18. What are the values of variables x and y after this JavaScript code snippet runs?

(61)

```
var x = 5;
var y = 3;
x++;
y--;
var z = ++x;
y = z * x + 2;
```

- a. x is 7 and y is 44
- b. x is 7 and y is 51
- c. x is 6 and y is 38
- d. x is 7 and y is 54
- e. x is 7 and y is 63

19. Which JavaScript statement has the syntax error? (45)

- a. `n = "4 = " + "a" + "+ 2";`
- b. `n = "4 = " + "2" + "+" + "2";`
- c. `n = "4 + 1" + ' = 5 ';`
- d. `n = "4 = a + 2";`
- e. `n = "4 = "a" + 2";`

20. Which JavaScript code will display the string "1+3+5+7+" ? (92-95)

- a.

```
for ( i = 0; i < 7; i++) {
    document.write( i + 1 + "+" );
}
```
- b.

```
for ( i = 1; i <= 7; i++) {
    document.write( i + "+" );
}
```
- c.

```
for ( i = 0; i <= 7; i+=2) {
    document.write( i + "+" );
}
```
- d.

```
for ( i = 1; i < 7; i*=2) {
    document.write( i + "+" );
}
```
- e.

```
for ( i = 1; i <= 7; i+=2) {
    document.write( i + "+" );
}
```

21. What text does this JavaScript code display in the browser window? (55-57)

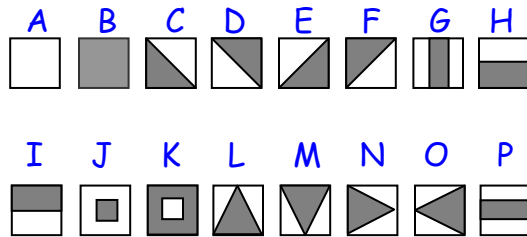
```
var a = 1.1;
var b = "3.5 apple";
document.write( a + b );
document.write( "<br>" );
document.write( b + a + "<br>" );
```

- a. 4.6
4.6
- c. 4.6apple
4.6apple
- e. nothing
- b. 1.13.5apple
3.5 apple1.1
- d. 4.6

4.6

22. Which JavaScript function correctly returns the calculated volume of a cube given supplied parameters of the cube dimensions as height, width, and depth? (111)
- a. `function volume(height, width, depth) {
 return height * width * depth;
}`
- b. `function volume() {
 return height * width * depth;
}`
- c. `function volume = height * width * depth;`
- d. `function volume(height, width, depth) {
 height + width + depth;
}`
- e. `function volume(height * width * depth);`
23. Which JavaScript loop statement is incorrect (doesn't print sequence results)? (89-91)
- a. `while (n < 10) document.write(n++);`
- b. `do { document.write(n); n++; } while (n < 10);`
- c. `for (var n = 10; n > 0; n--) { document.write(n); }`
- d. `for (var n = 0; n < 10; n++) document.write(n);`
- e. `while (n < 10) ; { document.write(n); n++; }`
24. What is the value of n after this statement is run: `n = (0 == "0") ? 1 : 0;` (62,65)
- a. undefined
- b. "0"
- c. 0
- d. 1
- e. "?"
25. Which of the following is not a valid method of a Date object? (141)
- a. `getMonth`
- b. `getFullYear`
- c. `getMinutes`
- d. `getHours`
- e. `getDays`

1	24	3	22	10
25	17	18	19	21
11	12	8	9	6
16	7	13	14	20
5	4	23	2	15



1. L C B A M
2. O A A J I
3. L M H B C
4. A C D P O
5. B D A G D
6. C A L N P
7. N I G A E
8. B E N L D
9. A G C J A
10. L A D N F
11. B L C M A
12. A E L K H
13. B M I D L
14. M H C P J
15. O L K A I
16. M A P C K
17. D J M E H
18. E B I A K
19. G A O B C
20. J M N I A
21. F A O M E
22. A L H F L
23. I A P D G
24. D P K A L
25. E H C O A

Optional – Draw in the corresponding shape into the numbered square. The four letters after each number correspond to the A, B, C, and D answers. For example, if the answer to question 1 is "a", then draw the L shape into square numbered 1 (top left). If the answer to question 1 is "b", draw the C shape, etc. A familiar picture should appear once the squares are completed correctly.