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GENERAL WEB AND JAVASCRIPT

HTML: `<p>`, ``, ``, ``, ``, comments

Know about how the server and client interact and how JavaScript fits in

Mostly fill in the blank or multiple choice

VARIABLES

Know how to declare variables

```
var x;
```

Know how to declare variables with initial values

```
var x = 3;
```

Know how to declare several variables on one line

```
var x, y, z;
```

Know the difference between integers, floats and strings

```
var x = 3;
var y = 3.0;
var z = "3";
```

ARITHMETIC

Know the order of operations.

```
2 + 2 + 8 / 4 = 6    vs.    (2 + 2 + 8) / 4 = 3
8 / 2 / 2 = 2      vs.    8 / 2 * 2 = 8
```

Know the difference between integer division and float division

```
9 / 10 = 0          vs.    9.0 / 10 = 0.9
```

Know modulus

```
7 % 2 = 1           7 % 3 = 1           8 % 2 = 0
```

Know how to increment

```
a++                a += 1                a = a + 1
```

RELATIONAL AND LOGICAL OPERATORS

Know < > <= >= == != !

3 > 4 is false 3 < 4 is true !(3 < 4) is false
3 != 4 is true 3 == 4 is false

Know && ||

true && true is true false && true is false
true || false is true false || false is false
(true || false) && false is false
(true && false) && true && ! false is false

LOOPS

Know about while loops and for loops

Be able to keep track of what a loop is doing as it runs

```
x = 0;
while ( x < 10 ) {
    document.write(x);
    x = x + 2;
}
```

answer: 0 2 4 6 8 10

```
for( i = 0; i < 3; i++) {
    document.write(i * 2);
}
```

answer: 0 2 4

Understand how nested loops work