

## JavaScript – Comparison & Logical Operators

### Practice Problems

Answer the following questions WITHOUT executing the code in Codepen. Also, explain why do you think your answer is correct.

Q1. What will be printed in the console?

```
var a = 10;      (10 * (12 - 5) / 8 + (5 + 12)) <= (8 * (12 + 10) / (5 + 12) + 10)
var b = 5;      ((10 * 7) / 8 + 17) <= (8 * 22 / 17 + 10)
var c = 12;      (70 / 8 + 17) <= (176 / 17 + 10)
var e = 8;      (8.75 + 17) <= (10.352 + 10)
var d;          25.75 <= 20.352

d = parseInt((a * (c - b) / e + (b + c)) <= (e * (c + a) / (b + c) + a));
console.log(d); 0

if (d == 1){
    console.log((a * (c - b) / e + (b + c))); (8 * (12 + 10) / (5 + 12) + 10)
} else {
    console.log((e * (c + a) / (b + c) + a)); 8 * 22 / 17 + 10
}
```

Q2. What will be printed in the console?

```
var n = 2;
var p = 4;
var q = 5;
var w = 3;
if ( !((p * q) / n <= (q * w) + n/p )) {
    console.log( ++p + w++ + " " + ++n);
}
else {
    console.log(--p + q-- + " " + --n);
}
```

*(4 \* 5) / 2 <= (5 \* 3) + 2 / 4*  
*20 / 2 <= 15 + 0.5*  
*10 <= 15.5*

*'8 1'*

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**Codepen URL:** <https://codepen.io/qaifikhan/pen/wOdOPM>

**My Twitter Handle:** @qaifikhan

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**All the Best!**