



Increment and Decrement Expressions

Keywords/Questions:

Addition(+) +=

Subtraction(-) -=

Multiplication(*)

Division(/) /=

Modulo(%)

%=

Pre/Post-Increment

++x x++

Pre/Post Decrement

--x x--

BODMAS

parseInt();

//

Notes:

Addition:- made by using the + sign. `var a = 2 + 3; //5`Subtraction: made by using the - sign. `var b = 10 - 2;`Multiplication:- made by using the * sign. `var c = 3 * 3;`Division:- made by the / sign. `var d = 6 / 2;`Modulo:- made by the % sign. Used to compute reminder. `var e = 9 % 6; //3`

//:- used for commenting out.

JavaScript operations follow the BODMAS rule.

parseInt(string):- used to convert a String to an Integer.

-For example, parseInt("1") converts the string "1" to an Integer.

```
var dogAge=prompt("What is the age of your dog?");
var humanAge=4*(dogAge-2)+21;
alert(humanAge);
```

-For example, if we input 2 in the prompt, the alert will be 21.

Increment Expression:- ++ `var x = 5;` -equivalent to `x=x+1`
`x++; //6`Decrement Expression:- -- `var x = 5;` -equivalent to `x=x-1`
`x-- ; //4`+= :used to increase the value of our variable. `var x = 5;` `var x = 5;`
`x += 2 ; //7` - `var y = 3;`
-= :used to decrease the value of our variable. `x += y ; //8`

+=

-=

*=

/=

Summary: JavaScript Operations:-Addition(+) -Subtraction(-) -Multiplication(*) -Division(/) -Modulo(%)

-Post-Increment Expression:x++

Post-Decrement Expression:x--

-Pre-Increment Expression:++x

Pre-Decrement Expression:--x

JavaScript Operations follow the BODMAS rule.

`x+=5`, `x-=5`, `x/=5`, `x*=5` :-can be used instead of `x=x+5`, `x=x-5`, `x=x*5`, `x=x/5` respectively.

parseInt(String); :-converts a string to an integer.

// :-used to comment out.

*=:- applied similarly to +=.

/=:-applied similarly to +=.

What does y equal?

```
1 | var x = 3;
2 | var y = x++;
3 | y += 1;
```

Incorrect answer. Please try again.

In this line: `var y = x++` the value of `x` is assigned to `y` before `x` is incremented, so `y` equals 3 on line 2, while `x` equals 4. There fore on line 3, `y` now equals 4 instead of 5.

Pre-increment/decrement --> The current value of the variable is used, **before** the increment/decrement

```
1 | var y = --x + z; // x is decremented by 1, then the result of the expression
2 |                // "x + z" (using this new value of x) is assigned to y.
```

Post-increment/decrement --> The value **after** the increment/decrement operation is used.

```
1 | var y = x++ + z; // the expression "x + z" is evaluated (using the current
2 |                // value of x) and assigned to y, then x is incremented.
```