



HTML

CSS





Is the addition or the multiplication done first?

As in traditional school mathematics, the multiplication is done first.

Multiplication (*) and division (/) have higher **precedence** than addition (+) and subtraction (-).

And (as in school mathematics) the precedence can be changed by using parentheses:

Example

```
var x = (100 + 50) * 3;
Try it Yourself »
```

When using parentheses, the operations inside the parentheses are computed first.

When many operations have the same precedence (like addition and subtraction), they are computed from left to right:

Example

```
var x = 100 + 50 - 3;
Try it Yourself »
```

JavaScript Operator Precedence Values

Pale red entries indicates ECMAScript 2015 (ES6) or higher.

Value Operator Description Example	
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HTML

CSS MORE ▼





10		Marahay	
19		Member	person.name
19	[]	Member	person["name"]
19	()	Function call	myFunction()
19	new	Create	new Date()
17	++	Postfix Increment	i++
17		Postfix Decrement	i
16	++	Prefix Increment	++i
16		Prefix Decrement	i
16	!	Logical not	!(x==y)
16	typeof	Туре	typeof x
15	**	Exponentiation (ES2016)	10 ** 2
14	*	Multiplication	10 * 5
14	/	Division	10 / 5
14	%	Division Remainder	10 % 5
13	+	Addition	10 + 5
13	-	Subtraction	10 - 5
12	<<	Shift left	x << 2
12	>>	Shift right	x >> 2

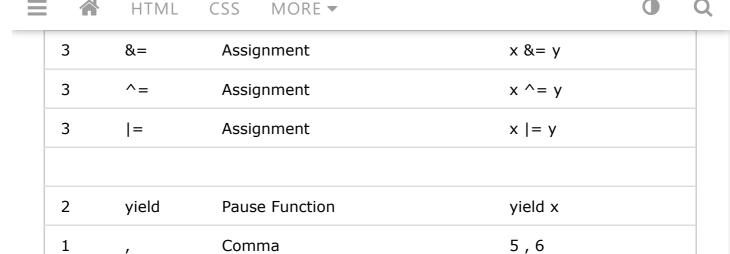








_		1111111	C33 WORL *	9
	11	<	Less than	x < y
	11	<=	Less than or equal	x <= y
	11	>	Greater than	x > y
	11	>=	Greater than or equal	x >= y
	11	in	Property in Object	"PI" in Math
	11	instanceof	Instance of Object	instanceof Array
	10	==	Equal	x == y
	10	===	Strict equal	x === y
	10	!=	Unequal	x != y
	10	!==	Strict unequal	x !== y
	9	&	Bitwise AND	x & y
	8	^	Bitwise XOR	x ^ y
	7	1	Bitwise OR	x y
	6	&&	Logical AND	x && y
	5	П	Logical OR	x y
	4	?:	Condition	? "Yes" : "No"
	3	+=	Assignment	x += y
	3	/=	Assignment	x /= y
	3	-=	Assignment	x -= y
	3	*=	Assignment	x *= y
	3	%=	Assignment	x %= y
	3	<<=	Assignment	x <<= y
	3	>>=	Assignment	x >>= y



Expressions in parentheses are fully computed before the value is used in the rest of the expression.

Test Yourself With Exercises

Exercise:

Divide 10 by 2, and alert the result.

alert(10 2);

Submit Answer »

Start the Exercise