Basic Arithmetic and the Modulo Operator in JavaScript

Arithmetic:

Addition:

Var a = 2+3; //5

Subtraction

Var b = 10-2; //8

Multiplication

Var c = 3*3; //9

Division

Var d = 12/3; //4   6/4 = 1.5

Modulo

Var e = 9%6; //3

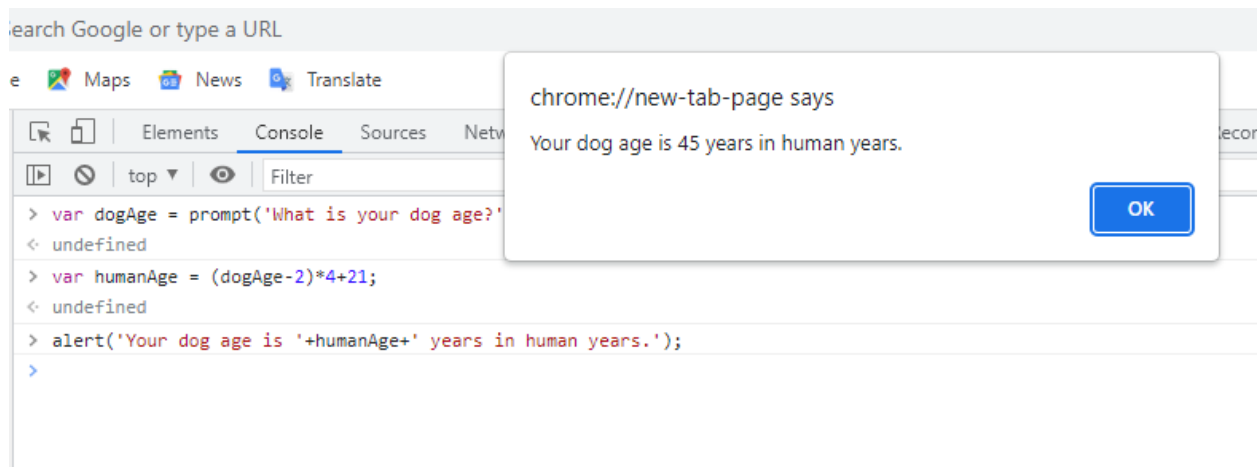Var cost = 3+5*2; //13

 Var cost = (3+5)*2; //16

```
> 6/4
< 1.5
> 6%4
< 2
> 12%8
< 4
> 45%2
< 1
> var cost = 3+5*2;
< undefined
> cost
< 13
> var a = (3+5)*2;
< undefined
> a
< 16
> |
```

Dog Age to Human Age Formula

$$humanAge = (dogAge - 2) \times 4 + 21$$

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chrome://new-tab-page says

Your dog age is 45 years in human years.

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```
> var dogAge = prompt('What is your dog age?'
< undefined
> var humanAge = (dogAge-2)*4+21;
< undefined
> alert('Your dog age is '+humanAge+' years in human years.');
>
```

Increment and Decrement Expressions

Same as we learnt in C and C++ as well as other programming languages like java.

Increment:

X = x+1;

X++;

++X;

Var x = 5;

X= x+1; //6

Decrement:

X = x-1;

X--;

--X;

Var x = 5;

X= x-1; //4

//

Var x = 5;

X = x+2; //7

X+=2;   //7

```
var x = 5;
var y = 3;
x += y ; //8
```

```
> //Increment Expressions
< undefined
> var x=5;
< undefined
> x++;
< 5
> ++x;
< 7
> x+=1;
< 8
> var y = 10;
< undefined
> y+=2;
< 12
> y++;
< 12
> y
< 13
>
```

```
> //Decrement Expressions
<- undefined
> var x = 6;
<- undefined
> x-=1;
<- 5
> x--;
<- 5
> x
<- 4
> --x;
<- 3
>  var y = 10;
<- undefined
> y-=2;
<- 8
> y--;
<- 8
> y=y-3;
<- 4
> |
```