

Precedence:

first multiply and divide } without brackets
then add and subtract

```
var dogAge = prompt ("How old is your dog");  
var Humanage = ((dogAge - 2) * 4) + 21;  
alert ("Your dog is " + Humanage + " years old in human  
years.");
```

Functions

① 1 bottle = 1,5 \$

```
getMilk(10);
```

```
function getMilk(money) {
```

```
    let Bottles = Math.floor (Money / 1,5);  
    console.log (Bottles);
```

}

* var n = Math.round () 0 - 0.9999

n = n + 6; 0 - 5.9999

n = Math.floor (n) + 1; 0 - 5 + 1

console.log (n);

* Love Score Calculator

```
prompt ("What is your Name ?");  
prompt ("What is your partners name ?");
```

```
var a = Math.random () * 100;  
a = Math.floor (a) + 1;
```

```
alert ("Your love score is " + a);
```

* var a = 1; // number

Var b = "1"; // string

```
if (a == b) {  
    console.log ("true");  
}  
else {  
    console.log ("false");  
}
```

output : False

```
if (a == b) {  
    console.log ("true");  
}  
else {  
    console.log ("false");  
}
```

output : true

checks equality as well as datatype
checks only equality

* leap year : ① If year evenly divisible by 4 leap
 ② ~~If~~ ~~except~~ If year evenly divisible by 100 not leap
 ③ If year evenly divisible by 400 leap

eg : 2000

$$2000 \div 4 = 500 \quad \checkmark$$

$$2000 \div 100 = 20 \quad \checkmark$$

$$2000 \div 400 = 5 \quad \checkmark$$

So a leap year.

$$2004 \div 4 = 501$$

2004 not evenly divisible by 100
 leap year.

$2001 \div 4$ not divisible by 4

not leap year ① if (year % 4 == 0) {

if (year % 100 == 0) {

if (year % 400 == 0) {

 console.log ("leap year");

}

else {

 console.log ("not");

}

else {

 console.log ("leap year");

}

else { console.log ("not"); }

}

