

MATLAB - SCALAR OPERATIONS OF MATRICES

http://www.tutorialspoint.com/matlab/matlab_matrix_scalar_operation.htm

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When you add, subtract, multiply or divide a matrix by a number, this is called the **scalar operation**.

Scalar operations produce a new matrix with same number of rows and columns with each element of the original matrix added to, subtracted from, multiplied by or divided by the number.

Example

Create a script file with the following code –

```
a = [ 10 12 23 ; 14 8 6; 27 8 9];  
b = 2;  
c = a + b  
d = a - b  
e = a * b  
f = a / b
```

When you run the file, it displays the following result –

```
c =  
    12    14    25  
    16    10     8  
    29    10    11  
d =  
     8    10    21  
    12     6     4  
    25     6     7  
e =  
    20    24    46  
    28    16    12  
    54    16    18  
f =  
    5.0000    6.0000   11.5000  
    7.0000    4.0000    3.0000  
   13.5000    4.0000    4.5000
```