a=[ 3 4 5 2 8];

3^0.5

ans =

 1.7321

(-3)^0.5

ans =

 0.0000 + 1.7321i

x=3^0.5

x =

 1.7321

format long

x

x =

 1.732050807568877

format short

x

x =

 1.7321

format rat

x

x =

 1351/780

format bank

x

x =

 1.73

format hex

x

x =

 3ffbb67ae8584caa

format

x

x =

 1.7321

x

x =

 1.7321

round(x)

ans =

 2

help round

 ROUND Round towards nearest integer.

 ROUND(X) rounds the elements of X to the nearest integers.

%redondeo a 3 decimales:

x =

 1.7321

round(x\*100)

ans =

 173

round(x\*100)/100

ans =

 1.7300

%round ceil floor fix

floor(3.999)

ans =

 3

floor(3.0001)

ans =

 3

floor(3)

ans =

 3

floor(-3.9999)

ans =

 -4

ceil(3.0009999)

ans =

 4

ceil(-3.9999)

ans =

 -3

fix(3.99)

ans =

 3

fix(-3.99)

ans =

 -3

14 mod 3

??? 14 mod 3

mod(14,3)

ans =

 2

mod(14.5,3)

ans =

 2.5000

mod(14.5,3.1)

ans =

 2.1000

mod(15,3)

ans =

 0

rem(15,3)

ans =

 0

rem(14,3)

ans =

 2

mod(14,-3)

ans =

 -1

rem(14,-3)

ans =

 2

5>2

ans =

 1

5<2

ans =

 0

% & and | or ~ no

(4>2) | (5>9)

ans =

 1

(4>2) & (5>9)

ans =

 0

(4>2) & 3.5

ans =

 1

(4>2) & 0

ans =

 0

(3>1)\*5

ans =

 5

~(3>2)

ans =

 0

clc

a=[ 3 4 5 2 8];

sum(a)

ans =

 22

prod(a)

ans =

 960

a=[ 3 4 5 2 8];

mean(a)

ans =

 4.4000

median(a)

ans =

 4

b=a+2

b =

 5 6 7 4 10

a

a =

 3 4 5 2 8

a+b

ans =

 8 10 12 6 18

a\*b

{??? Error Inner matrix dimensions must agree.}

a

a =

 3 4 5 2 8

b

b =

 5 6 7 4 10

% .\* ./ .\ .^

a=[ 3 4 5 2 8];

clc

a=[ 3 4 5 2 8];

b

b =

 5 6 7 4 10

a.\*b

ans =

 15 24 35 8 80

a./b

ans =

 0.6000 0.6667 0.7143 0.5000 0.8000

a.\b

ans =

 1.6667 1.5000 1.4000 2.0000 1.2500

clc

a=[ 3 4 5 2 8];

b=[ 5 6 7 4 10];

b>a

ans =

 1 1 1 1 1

b>7

ans =

 0 0 0 0 1

b>5 & b<=9

ans =

 0 1 1 0 0

b=[ 5 6 7 4 10];

clc

a=[ 3 4 5 2 8];

%cuantos elementos son >4

a>4

ans =

 0 0 1 0 1

sum(a>4)

ans =

 2

% sumar los elem. >4

a=[ 3 4 5 2 8];

a>4

ans =

 0 0 1 0 1

a.\*(a>4)

ans =

 0 0 5 0 8

sum(a.\*(a>4))

ans =

 13

x=[ 18 4 20 5 8];

%prom

mean(x)

ans =

 11

% nota prom de aprob

x.\*(x>=10)

ans =

 18 0 20 0 0

sum(x.\*(x>=10))/sum(x>=10)

ans =

 19

Clc

%notas x y credictos

x=[ 18 4 20 5 8];

c=[ 5 2 6 4 3];

sum(x.\*c)/sum(c)

ans =

 13.1000

%prome. pond de aprobados

sum(x.\*c.\*(x>=10))/sum(c.\*(x>=10))

ans =

 19.0909

%cuales son las notas aprobadas

x.\*(x>=10)

ans =

 18 0 20 0 0

x

x =

 18 4 20 5 8

x(x>=10)

ans =

 18 20

a

a =

 3 4 5 2 8

x

x =

 18 4 20 5 8

a(x>=10)

ans =

 3 5

x

x =

 18 4 20 5 8

mean(x(x>=10))

ans =

 19

x

x =

 18 4 20 5 8

c

c =

 5 2 6 4 3

sum(x(x>=10).\*c(x>=10))/sum(c(x>=10))

ans =

 19.0909

diary off