Expressions

• The instruction that we write using operators is called expressions

```
c = a + b
# c , a , b are operands
# = , + are operators
```

Lets take example:

- This happened because of precedence .
- First multiplication takes place because it has higher precedence than addition
- They will execute based on their precedence

$$d = 2*3 + 8/2$$

= $6 + 4 = 10$

• To increase the precedence we use ()

2+3*5 # first multiplication take place because it have higher precedence than addition 2+15 = 17

By using parentheses

(2+3) * 5 # here addition will take place because parentheses have higher precedence than all 5 * 5 = 25

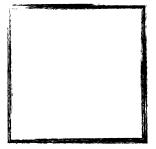
What if we are having

So it will do left to right #first multiplication than division

It will execute from right to left

Python expressions: Square.

Area of a square = lb

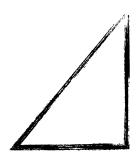


• In python we write using expressions

The area of the square can be written I * b

Triangle.

Area of a triangle = 1/2 bh



In python = 1/2*b*h

Trapezium

Area of a trapezium = a+b/2 h



In python we write using python expressions area= (a+b) / 2*h

Displacement

$$(v^2-u^2/2a)$$

In python $(v^{**}2-u^{**}2)/(2^*a)$

Equal roots

(-b/2a) In python using expressions

(-b/(2*a))