

Operator An Operator is **SYMBOL** which is used to perform particular Task between two or More **OPERANDS**

10 $\boxed{+}$ 20 ✓

a = 10

b = 20

(a) + (b)

Expression

Operand

These are the
Reference of
Values

Expression = {Operands} + {Operators }

- What is the Formate of Output

- Value

- Boolean

Operators

7 Types

Arithmetic

Assignment

Comparision

Logical

Identity

Membership

Bitwise

+ add

- sub

* Mul

/ Division (Qu)

/

% Modules (Rem)

** Exponential(Power)

// Floor Division

=

└

Short-Hand

Assignemt

Operators

+=

-=

*=

<

>

==

<=

>=

!=

and

or

not

Division { Quatient }

4) 15 (3.75
12

30
28

20
20

Modules (Remainder)

The First
Remainder value is
OUTPUT for %

Floor Division //

/ and //

3.75

3.75
3.75

Exponential

Power

$a ** b$ a^b

a = 15

b = 4

$a ** b$
= 50,625

OUTPUT
VALUE

a=15 b=4 print(a+b)#19 print(a-b)#11 print(a*b)#60 print(a/b)#3.75 print(a%b)#3 print(a//b)#3 print(a**b)#50625	a= 10 b=20 a=a+b print(a)#30 a=10 b=20 a+=b print(a)#30	a=10 b=20 print(a==b)#False print(a<b)#True print(a<=b)#True print(a>b)#False print(a>=b)#False print(a!=b)#True	
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Short Hand Assignment Operators

$+=$ a
 $-=$ b
 $*=$ **a=a+b**

$a += b$
 10 + = 20

a = 10
b = 20

~~a = x + b~~

OP - 30

a = + b

a + = b

30 = 10 + 20
 100 100 101

a = 10
 b = a

OUTPUT
VALUE

ab a X b
 +=
 =+ b X a

a = 10
b = 20

a+=b

10 + = 20
←
= 20
30 = 10+20

a = + b .

10 = + 20
20
= 20
20 = 20

Comaprision / Relation

Creates Relation B/W Two Variables

== a == b

>

<

!=

>=

<=

Logical Operators Performs Operations on Logic (on Binary Values)

and

or 0 wtc 1

not

a= 10

b= 5

a	b	and X	or +	not a
0	0	0	0	1
0	1	0	1	1
1	0	0	1	0
1	1	1	1	0

L

H

**OUTPUT
Boolean**

	32	16	8	4	2	1	
10			1	0	1	0	1010
5			0	1	0	1	0101
							and 0000 - 0
							or 1111 - 15
							not 10 X 5

1010
0101

<pre>a=10 b=5 print(a and b)#5 print(a or b)#10 print(not a)#False</pre>	
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