

What are the basic arithmetic and boolean operations in python?



Dylan Says:

Open a terminal window on your computer, run
\$ `python3`. You are now in the ***python shell***.

Enter the following commands (in order, hit
return after each), examine the results:

```
5 + 9
```

```
x = 10
```

```
x
```

```
x * 2
```

```
x ** 2
```

```
x % 6
```

```
x % 5
```

```
x / 2
```

```
x // 3
```

```
x // 3.0
```


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Python Arithmetic Operators

operator	name	example	result
=	assignment	<code>a = b</code>	set <code>a</code> to <code>b</code> 's value
+	addition	<code>a + b</code>	return <code>a + b</code>
-	subtraction	<code>a - b</code>	return <code>a - b</code>
*	multiplication	<code>a * b</code>	return <code>a * b</code>
**	exponentiation	<code>a** b</code>	return <code>a^b</code>
/	division	<code>a / b</code>	return <code>a / b</code>
//	floor division	<code>a // b</code>	return the floor of <code>a / b</code>
%	modulo	<code>a % b</code>	return the modulo (remainder) of <code>a / b</code>

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Number types

There are 2 number types, integers and floating points.

Performing arithmetic operations between values of the same type will return the same type

except for division, which always returns a floating point.

Performing arithmetic operations with at least one floating point type will always return a floating point value.

What are the basic arithmetic and boolean operations in python?

Boolean Values

True, False

Boolean operators

and, or, not

Comparison Operators

>, <

>=, <=

!=, ==