

# Day 03 - Math and Magic



Well done on completing the `print()` function. Now let's see Python do some clever math!

Today we are going to use the code editor as well as the REPL.

Create a folder called "Day 03" in your "14 Days Of Py" folder and create a "main.py" file. Fill out the following between line 1 and 3.

```
main.py •
Day 03 > main.py
1 123
2 456
3 123+456
4 |
```

In the previous video we saw that unless we use the `print()` function those numbers will just live inside the computer, never seeing the light of day. Try using the `print()`. Notice the colors of the numbers and see if the color changes at all.

How did you get on? Did you notice anything? What was the output of line 3? Was it: 123+456 or did you see the number 579? Aah isn't that something!

Well Python understands numbers and doesn't need us to define them (like when "hello" was undefined). Today we are just going to be printing a lot of math. You can do this in your `main.py` file OR you can type the math directing into the REPL. You decide.

You can practice in the REPL by just inputting numbers and equations or you can type them up in your `main.py` file.

Start with just these operators:

Addition	+
Subtraction	-
Multiplication	*
Division	/

```
main.py •
Day 03 > main.py
1 print(5+5)
2

>>> 5+5
10
>>> |
```



# Day 03 - User Challenge



Today we get throw back to our math classes!

Create a challenge.py file and by using the print() replicate the following output on your screen:

```
*****
Python can help us solve many problems. For example:
1. If you get $10 a week in one year, for two years, you will have:
1040
2. If we split a $125 bill between you, me and Sarah:
41.666666666666664
3. If I write 8 lines of code a week for 8 weeks:
64
4. 5*5*5+10 is :
135
Amazing! Python is so clever!
*****
```

To avoid spoilers, you can find the solution to this challenge on our special DroneBlocks Python replit here:

<https://replit.com/@DroneBlocksPy/14Days-Day3#main.py>

## HINTS:

There are 12 lines of code

The printed stars don't have to be 'exact' just eyeball / guess the amounts if you like

There are 4 lines of code that use print() with numbers and not strings.

Good luck Python Programmer! Tomorrow is going to be very exciting as we are going to learn about a new tool as well as something called "f-strings"! Tomorrow is going to be a game changer for your "outputting" skills!

