What else do I need to know about division?
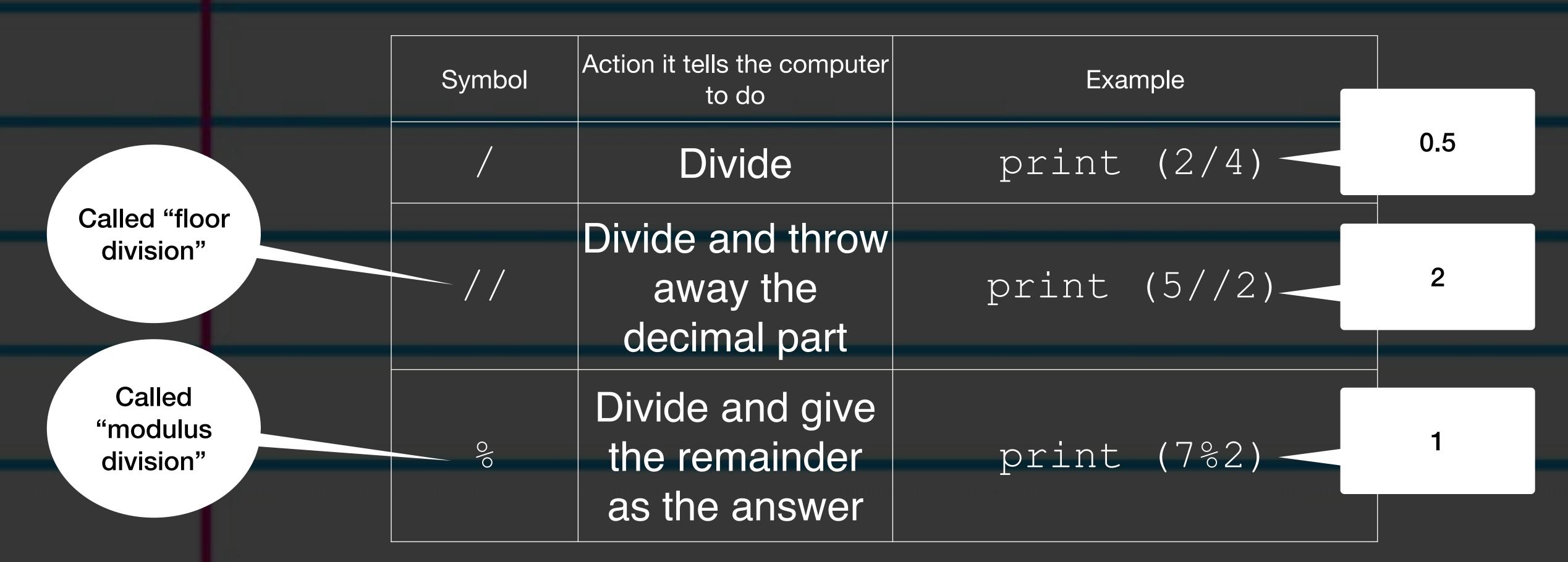
Math in Python

<u>Division in Python</u>

Q: What else do I need to know about division in Python?

A: There are three kinds!

Python division operators:

Symbol	Action it tells the computer to do	Example
/	Divide	`print (2/4)`
//	Divide and throw away the decimal part	`print (5//2)`
%	Divide and give the remainder as the answer	`print (7%2)`

0.5

2

1

Called "floor division"

Called "modulus division"

print (7%2) ← 1

print (5%3) ← 2

```
  3 r 1
2 ⟌ 7
  -6
  ____
   1
```

```
  1 r 2
3 ⟌ 5
  -3
  ____
   2
```

print (8%2) ← 0

print (3%10) ← 3

$$\begin{array}{r} 4\,r\,0 \\ 2\,\overline{)\,8} \\ -8 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 0\,r\,3 \\ 10\,\overline{)\,3} \\ -0 \\ \hline 3 \end{array}$$