Maths and Booleans

```
# Maths
1 + 1  # => 2
8 - 1  # => 7
10 * 2  # => 20
35 / 5  # => 7.0
7 % 3  # => 1
```

```
# Booleans
True # => True
False # => False
not True # => False
not False # => True
True and False # => False
False or True # => True
```

- Python has the usual maths operators like other languages
- Integers are whole numbers, floats are decimals
- Integers are coerced to floats on division
- The modulo % operator returns the remainder after division, and is surprisingly useful!
- Booleans are True and False (note the capital letters)
- Boolean operators are and, not, or (note the lower-case letters)

Conditionals (if/elif/else)

- Start a conditional clause with if, then a statement, then a colon:
- Remember: indentation has meaning in Python!
- The body of each clause is indented to the right
- Use elif for else if, and
 else for the default
- Both of these are at the same indentation level as if

```
if my_number > 10:
    print("Your number is bigger than 10.")
elif my_number < 10:  # This elif clause is optional.
    print("Your number is smaller than 10.")
else:  # This is optional too.
    print("Your number is exactly 10.")</pre>
```