Expressions / Operators / Precedence

```
>>> 7 + 2     # addition
9

>>> 7 - 2     # subtraction
5

>>> 7 * 2     # multiplication
14

>>> 7 / 2     # division
3.5

>>> 8 / 2   # '/' always produces a 'float'
4.0

>>> 8 // 2   # '//' always produces an 'int'
4

>>> 17 // 3  # integer quotient
5

>>> 17 % 3   # integer remainder
2


>>> 2 + 3 * 4        # '*' has higher precedence than '+'
14

>>> ( 2 + 3 ) * 4     # parentheses can override precedence
20


>>> 4 - 3 - 2        # equal precedence operators applied left-to-right
-1

>>> 4 - ( 3 - 2 )    # parentheses can override precedence
3


>>> 40 / 10 * 5      # equal precedence operators applied left-to-right
20.0

>>> 40 / ( 10 * 5 )  # parentheses can override precedence
0.8
```

```
>>> 2 + 2 == 4  # '==' : are two values equal?
True

>>> 2 + 2 == 5  # '==' : are two values equal?
False


>>> answer = 2 + 2 == 2 * 2  # Boolean values can be stored in variables

>>> answer               # Boolean variables can be evaluated
True


>>> 3 != 7  # '!=' : are two values different?
True

>>> 3 != 3  # '!=' : are two values different?
False


>>> 3 < 7   # '<' : is the first value strictly less than the second?
True

>>> 3 < 3   # '<' : is the first value strictly less than the second?
False


>>> 3 > 7   # '>' : is the first value strictly greater than the second?
False

>>> 3 > 3   # '>' : is the first value strictly greater than the second?
False


>>> 3 <= 7  # '<=' : is the first value less than or equal to the second?
True

>>> 3 <= 3  # '<=' : is the first value less than or equal to the second?
True


>>> 3 >= 7  # '>=' : is the first value greater than or equal to the second?
False

>>> 3 >= 3  # '>=' : is the first value greater than or equal to the second?
True
```