



Programming Exercise 1b: Computations

1. Create your own script (program). It should include the following:
 - a. At least three comments.
 - b. At least three calculations with at least two operations each.
 - c. At least two comparisons, one that results in “true” and one that results in “false”.
 - d. Call Mr. Z over so he can see it once you get it working.

2. Something odd happens with division of integers when you use python.
 - a. Get a calculator and do the following calculations:

	CALCULATOR	PYTHON
i.	$15 / 2 =$	
ii.	$15 / 3 =$	
iii.	$15 / 4 =$	
iv.	$15 / 5 =$	
v.	$15 / 6 =$	

 - b. Now write a program that will do the above calculations. Compare what you get on python by what you get on the calculator. What’s different?

 - c. Repeat the above calculations on the computer using “15.0” instead of “15”. What happens?

3. What does the percentage symbol (%) do in a program? Write at least three lines of code that use this symbol in order to figure it out. Then Google it.

ADVANCED: If you finish early, try these.

1. Python can also do calculations that involve exponents. Using Google, figure out how to raise numbers to different powers with Python.

2. When it comes to programming, there are different “types” of numbers. Go to the Python Library online and see if you can find out the four different types of numbers:

<http://docs.python.org/2/library/index.html>