**Simple Python Data Section 1**

**Python Reading**

Read [Simple Python Data](http://interactivepython.org/runestone/static/thinkcspy/toc.html) from *Variables, Expressions and Statements* through the section entitled *Variable Names and Keywords*.

**Checking Your Understanding (22 total pts)**

**Directions: Provide an answer for each question directly after the question on the copy of this document that you saved to your drive – please save it with the same name I have given it. When appropriate, you need to answer in complete sentences.**

      Watch: [Click, Baby, Click](https://www.youtube.com/watch?v=HNaCf_Fnp6E)

1. Give a definition for analytics?   Why are analytics important in today's world?

The data that can be taken away from studying statistics.

1. Give an example of the string (str) type. Now give an example of the integer (int) type. Finally, give an example of the float type.

This is an example of a string (“Hello!”). This is an example of an integer (20). This is an example of a float (2.3)

1. Why do we care about types?

It can tell python about how the numbers or letters should be treated.

1. How can you print the sentence *"She's from Cuba"* if you want all the quote marks to show up?

You would put quotes like this (“”””She’s from Cuba” “””).

1. Explain the difference between *print("hi", "there")* and*print("hi" + "there")*?
2. How can you convert 3.14 into a string? Into an integer? Into a float?

You can convert them like so, (str(3.14)) to convert to a string, (int(3.14)) to convert to an integer, and (float(3.14)) to convert to a float.

1. Give an example where using a variable in a Python program is helpful.

If you want to assign a name to anything like a number or function, it saves you the time of having to type it out repeatedly.

1. Explain how the assignment operator, =, works.

When trying to assign something a variable you would type it like this n = 7 now when you type an “n” it shows as a 7.

1. Why might it a good idea to only use lower case letters in variable names?

So that if you forget if it is capital you wont have to retype your code again.

1. Why is it a good idea to make variable names meaningful?

It’s important so that you can remember their names.

1. Give an example of an illegal variable name.

“print” is an illegal variable name as it is already used for printing characters.