CHAPTER 1 – PYTHON BASICS

1. Which of the following are operators, and which are values?

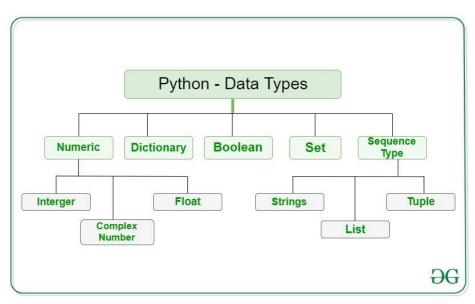
- * Operator
- 'hello' Value
- -88.8 Value
- Operator
- / Operator
- + Operator
- 5 Value

2. Which of the following is a variable, and which is a string?

Spam - Variable

'spam' - String

3. Name three data types



4. What is an expression made up of? What do all expressions do?

- Expression is the most basic kind of programming instruction in the language.
- Expressions consist of values (such as 2) and operators (such as +), and they always evaluate (that is, reduce) down to a single value.

$\underline{5}$. This chapter introduced assignment statements, like spam = 10. What is the difference between an expression and a statement?

An expression evaluates to a single value. A statement does not.

6. What does the variable bacon contain after the following code runs?

bacon = 20

bacon + 1

ANS: 20

7. What should the following two expressions evaluate to?

```
'spam' + 'spamspam' - spamspamspam
'spam' * 3 - spamspamspam
```

8. Why is eggs a valid variable name while 100 is invalid?

Variable names cannot begin with a number.

<u>9</u>. What three functions can be used to get the integer, floating-point number, or string version of a value?

int(), float() and str()Functions can be used to get the integer, floating-point number, or string version of a value respectively.

10. Why does this expression cause an error? How can you fix it?

'I have eaten ' + 99 + ' burritos.'

Cause of error: concatenating an integer with a string

Correction: 'I have eaten ' + '99' + ' burritos.'

(or)

'I have eaten ' + str(99) + ' burritos.'