Name: _____ Section: 2 (7th-8th) or 3 (9th-10th)

Do the reading assigned below and answer these questions either while reading or afterwards (your choice). ***Not sure of an answer?*** Ask your instructor to explain ***at the beginning of the next class session***. You can then fill in your answer, still for full credit. (But no fair doing that unless you attempted the question first.)

Reading for this quiz: Chapter 3 of your textbook (Zelle)

1. Is the object **`3`** an ***int*** or a ***float***? (Circle your choice.)
2. Is the object **`3.0`** an ***int*** or a ***float***? (Circle your choice.)
3. What does **`16 / 3`** evaluate to? (Just write a reasonable approximation.) _____
4. What does **`16 // 3`** evaluate to? _____
5. What does **`16 % 3`** evaluate to? _____
6. What does **`2 ** 3`** evaluate to? _____
7. Write the statement that makes the variable **`x`** have as its new value **`3.5`** ***plus*** the value that it had before this statement.

8. What are the two possible values of a ***bit***? _____ and _____
9. How many different things can you represent with: 2 bits? _____ 4 bits? _____ 10 bits? _____
10. Rounding to *one* (yes, just *one*!) significant digit, how many different values can you represent with:

    10 bits: _____

    20 bits: _____

    30 bits: _____

11. True or False: an ***int*** (in Python 3) has a limit on its size other than the limit imposed by the size of the physical memory in the computer. ***True*** or ***False***
12. True or False: a ***float*** (in Python 3) has a limit on its size other than the limit imposed by the size of the physical memory in the computer. ***True*** or ***False***
13. True or False: a ***float*** (in Python 3) has a limit on its *precision* other than the limit imposed by the size of the physical memory in the computer. ***True*** or ***False***
14. True or False: an ***int*** (in ***Java*** and most other programming languages) has a limit on its size other than the limit imposed by the size of the physical memory in the computer. ***True*** or ***False***

If you have other questions about Chapter 3, ask them at your next class session!