Task 2

1. Add a math.floor function to the volume line.
    a. volume = math.floor(4 / 3 * math.pi * radius ** 3)
2. Add a math.ceil function to the volume line.
    a. volume = math.ceil(4 / 3 * math.pi * radius ** 3)

Task 3

Part A

Problem number	Hand calculation	Python calculation
1	10	10
2	100	100
3	96	96.0
4	5.666666666666	5.33333333333333
5	4096	4096
6	2	2.0
7	13	13

Part B

1. The hand calculations for problems 3 and 6 were not decimals while the python calculations were. They are the “float” type. Problem 4 is different by 1/3 between the two calculations.
2. The print function
3. In python, you use “**” instead of “^” to raise a value to the power of another value. Additionally, there isn’t a modulus a function in the calculator (as far as we know). Also, the calculator never shows its outputs in decimal form if it doesn’t have to, while python sometimes shows the output as the float type, which is in decimal form.

Task 4

1. Nothing
2. Change B-2 to B_2 because – is not a valid variable name character
3. Nothing
4. Blank
5. Capitalize C in class because lowercase class is a command and not a valid variable name.
6. Blank
7. Change name@name to Name because @ is not a valid variable name character. Change Count to counT because capitalization matters in variable names, and counT is our defined variable.
8. Blank
9. Change ^ to ** because ** is the symbol for exponents
10. Blank
11. Change Ln to ln because capitalization matters in variable names, and ln is our defined variable
12. Blank
13. Change def to Def because def is a command and not a valid variable name. Change ^ to ** because ** is the symbol for exponents. Change CounT to counT because capitalization matters and counT is our defined variable.
14. Blank
15. Change 3vari to vari3 because placing a number in the front of a variable name is not valid.