

Name: _____

Date: _____

CSCI-UA.0002 – Class #3 Types, Variables, Operators, and Comments

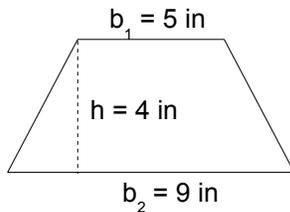
1. Write out the output of each line in the space provided. If the line results in an error, write “error”.

- 1. `print(5 + "5")` #1. _____
- 2. `a = "five"`
`print("five " + a)` #2. _____
- 3. `a = 5`
`b = "15"`
`print(a + b)` #3. _____
- 4. `print(5 + int("5"))` #4. _____
- 5. `print(str(5) + int("5"))` #5. _____
- 6. `print(15 / 2)` #6. _____
- 7. `print(-15 // 2)` #7. _____
- 8. `print(15 % 2)` #8. _____
- 9. `print(15 ** 2)` #9. _____
- 10. `print(5 * 5 + 5)` #10. _____

2. How many parameters (arguments) does the function, `str`, take? What, does the function, `str`, do?

3. The function, `input`, returns a value. What is the type of the value that it returns?

4. Here's a trapezoid: The area of a trapezoid is:



$$A = \frac{(b_1 + b_2) * h}{2}$$

Write a program that calculates the area of the trapezoid above:

- 1. Write a comment in your code that says: “Class #3 Handout”.
- 2. Declare 3 variables to represent height, base 1 and base 2. Set them equal to the values in the figure above.
- 3. Declare a variable to represent area. Set it equal to an expression that calculates the area using the formula above.
- 4. Print out “The area of the trapezoid is [area]”, substituting the part in brackets with the corresponding variable.