Name:	Date:
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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. "55"

- 2. a = "five"
 - print("five " + a)
- #2. "five five"

3. a = 5
 b = "15"
 print(a + b)

- #3. error (types don't match for +)
- 4. print(5 + int("5"))
- 5. print(str(5) + int("5"))
- #5. error (types don't match for +)

6. print(15 / 2)

#6. **7.5**

#4. 10

- 7. print(-15 // 2)
- #7. -8

8. print(15 % 2)

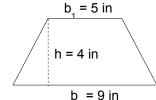
#8. **1**

9. print(15 ** 2)

- #9. **225**
- 10. print(5 * 5 + 5)
- #10. **30**
- How many parameters (arguments) does the function, str, take? What, does the function, str, do?
- 1 parameter, it converts the argument passed in into a string
- 3. The function, input, returns a value. What is the type of the value that it returns?

str (a string)

- 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.

```
"""
Class #3 Handout:
"""
h = 4
b1 = 5
b2 = 9
area = ((b1 + b2) * h) / 2
print("The area of a trapezoid with the trapezoid is " + str(area))
```