

Name: \_\_\_\_\_

Partner: \_\_\_\_\_

## Python Activity 13: Value Returning Functions

### Learning Objectives

Students will be able to:

*Content:*

- Explain the meaning and purpose of a value returning function

*Process:*

- Write code that includes function definitions and function calls

### Prior Knowledge

- Python concepts from Activities (1, 3, 12)

**FYI:** So far, the functions you have created print the results within the function. They do not send back any information to the original calling code. Functions that do not send back information are known as **void functions**. Functions often send back or *return* a result and are known as **value returning functions**.

1. Enter and execute the code below. Carefully examine the code.

```
import math

def getQuadratic(a,b):
    square = a**2 + b**2
    squareRoot = math.sqrt(square)
    return squareRoot

def main():
    sqRoot = getQuadratic(3,4)

    print('The square root of the sum of the squares of 3 and 4 is:', sqRoot)

#### Call to main() ####
main()
```

- a. Circle the line of code from the program that includes the **function call** to *getQuadratic*.
- b. In a **void function**, the **function call** is on a line by itself. Why is this **function call** placed on the right-hand-side of an **assignment statement**?

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- c. What are the arguments used for the function call? \_\_\_\_\_

- d. What does the program do?

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