

1. What are the values of  $a$ ,  $b$ , and  $c$  after running through the following code? After you calculate them by hand, write a short python program with the same code snippet to check your answer!

```
a = 10
b = a ** 2
c = b / 5 + 10
a = a + 6 / 2
```

2. Write a function called *max* that takes two numbers and returns the larger one. Then, write three calls to your function that would tell you that your function is working as expected.

3. Write a function that accepts a number between 0 and 100 and returns a letter grade. (90 or more is an A, 80-89 is a B, etc.) Then, modify your program to include '+'s and '-'s.

4. Fill in the blanks with the appropriate operation.

```
x _____ 3
#x now has the value 3
if x _____ 3
    #next line should print true
    print (x _____ 3)
```

5. What will the following code output for each of the inputs listed below?

```
fruit = input("Enter a fruit: ")
number = int(input("Enter a number: "))

if fruit == "apple":
    if number > 0 and number <= 5:
        print("A few apples")
    elif number > 5:
        print("So many apples!")
    else:
        print("That's weird")
elif number == 3:
    print("Three!!!")
elif fruit == "pear":
    if number == 2:
        print("A pair of pears!")
    else:
        print(number, "Pears!!!")
else:
    print("I like", fruit, "too!")
```

- (a) apple 25
- (b) apple 3
- (c) apple 2
- (d) apple -6
- (e) pear 2
- (f) pear 3
- (g) pear 30
- (h) kiwi 17
- (i) starfruit 3

6. Write a function that asks a user for their class year, and prints a different message for each class year. Remember to have your function handle incorrect responses from the user.