Quiz 4 Writing more Python Functions Name _____

For the following questions, write your code in the space provided, or circle the letter of the MOST correct answer.

1. Write a function called printNtimes that takes two parameters, a string and a number. The function should print the string the number of times indicated by the number parameter.

```
Example call:
printNtimes("fred", 3)

Prints:
fred
fred
fred
```

2. Write a function called count_q that receives one string parameter. The function returns a number that is the count of the number of q characters in the string.

```
Example calls:
b = count_q("helloworld")
c = count_q("heqlqqlowoqrldqq")
print b, c

Prints:
0 6
```

3. Write a function called isHot. It receives a numeric parameter for the temperature. If the temperature is above 80 return True otherwise return False.

```
Example calls:
x = isHot(81)
y = isHot(80)
print x, y

Prints:
True False
```

4. The function roll_die has already been written for you below. It receives an integer parameter indicating how many sides are on the dice. It returns a random number between 1 and the number of sides on the die. Write 3 calls to the function. One for a 20 sided die, one for a 13 sided die, and one for a 6 sided die. Write code to print the values rolled.

```
Provided code:
import random
def roll_die(sides):
    r = random.randrange(1, sides+1)
    return r
```

5. Write a function called first_plus_last that receives a list of numbers as a parameter. It returns the sum of the first and last numbers in the list. The list will have at least 2 items.

```
Example calls:
a = first_plus_last( [3,4,4,4,4,6] )
print a

Prints:
9
```

6. Write a function called hello_name that receives a string parameter that contains a name. Return a greeting of the form "Hello Bob!".

```
Example calls:
s = hello_name("Alice")
print s

Prints:
Hello Alice!
```

7. Select the box that shows the output after the program is executed.

```
def function7(n):
    if n % 7 == 0:
        return True
    else:
        return False

a = function7(13)
b = function7(14)
c = function7(15)
print a,b,c
```

(a) False True True	(b) True True False	(c) False False False	(d) False True False

8. Select the box that shows the output after the program is executed.

```
def function8(str):
    mid = len(str)/2
    return str[mid:]

a = function8("hello")
b = function8("helloworld")
print a,b
```

(a) o d	(b) llo world	(c) hello helloworld	(d) hello world

9. Select the box that shows the output after the program is executed.

```
def function9(n):
    nums = [ ]
    for i in range(n):
        if i >= 2:
            x = nums[i-1] + nums[i-2]
        else:
            x = 1
        nums.append(x)
    return nums

z = function9(5)
print z
```

(a) 5	(b) [1, 2, 3, 4, 5]	(c) [1, 1, 2, 3, 5]	(d) [0, 1, 2, 3, 4]

10. Select the box that shows the output after the program is executed.

```
def function10(lst):
    i = 0
    while i < len(lst) and lst[i] != 12:
        i = i + 1
    return i

a = function10( [3, 12, 9, 12, 13] )
b = function10( [1, 2, 4, 8, 12, 24] )
print a,b
```

(a) 1 4	(b) 5 6	(c) 2 5	(d) 49 51