Reading Python Functions

Name _____

Write your answers to the questions here.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

Reading Python Functions

NAME _____

For the following questions, circle the letter of the MOST correct answer.

1. The box below shows the output after a certain program has run. Select the program below that was executed to produce this result.

```
15
```

(a)
```
def compare(a,b):
    if a>=b:
        return a
    else:
        return b
def main1():
    x = compare(3,5)
    y = compare(7,5)
    print x + y
main1()
```

(b)
```
def compare(a,b):
    if a<=b:
        return a
    else:
        return b
def main1():
    x = compare(3,5)
    y = compare(7,5)
    print x + y
main1()
```

(c)
```
def compare(a,b):
    if a>=b:
        return a
    else:
        return b
def main1():
    x = compare(3,5)
    y = compare(7,5)
    print x * y
main1()
```

(d)
```
def compare(a,b):
    if a<=b:
        return a
    else:
        return b
def main1():
    x = compare(3,5)
    y = compare(7,5)
    print x * y
main1()
```

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

```
def main2():
    a = 0
    b = 0
    while a < 5:
        a = a + 1
        b = b + a
    print a, b
main2()
```

(a)
5 5

(b)
5 15

(c)
6 120

(d)
4 10

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

```
def func3(x, y):
  z = x + y
  return z
def main3():
  s = 1
  for i in range(3):
      s = func3(s, s)
  print s
main3()
```

(a)
2

(b)
4

(c)
8

(d)
16

4. The box below shows the output after a certain program has run. Select the program below that was executed to produce this result.

```
-2
```

(a)	(b)	(c)	(d)

def subtract(a, b):
  c = a - b
  return c
def main4():
  d = subtract(4, 5)
  print d
main4()
	def subtract(a, b):
	  c = a - b
	  return c
	def main4():
	  d = subtract(5, 4)
	  print d
	main4()
		def subtract(a, b):
		  c = a - b
		  return c
		def main4():
		  d = subtract(4, 6)
		  print d
		main4()
			def subtract(a, b):
			  c = a - b
			  return c
			def main4():
			  d = subtract(6, 2)
			  print d
			main4()

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

```
def func5(a, b):
  c = a * b
  d = a + b
  if c > d:
    return True
  else:
    return False
def main5():
  if func5(-4,4):
    print "Yes"
  if func5(-2,3):
    print "Yes"
  if func5(1,2):
    print "Yes"
main5()
```

(a)	(b)	(c)	(d)
<nothing>	Yes	Yes Yes	Yes Yes Yes

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

```
def main6():
   x = 0
   s = 0
   while x != 5:
      s = s + x
      x = x + 1
   print s
main6()
```

(a) 1	(b) 3	(c) 6	(d) 10

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

```
def main7():
    print 8*3 + 3-8
main7()
```

(a) 29	(b) 19	(c) 3	(d) 0

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

```
def main8():
    for i in range(3):
        print "code"
main8()
```

(a) <nothing>	(b) 1 code 2 code 3 code	(c) 1 code 2 code	(d) code code code

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

```
def main9():
    x = 20
    x = 40
    if x < 30:
        print "smaller"
    else:
        print "greater"
main9()
```

(a) SMALLER	(b) smaller	(c) smaller greater	(d) greater

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

```
def main10():
    x = 1
    y = 2
    print x + y * 3 - 4
main10()
```

(a) -3	(b) -1	(c) 3	(d) 5