

# Python Beginner Homework 6

In the following multiple choice questions, please circle the correct output of Python code.

1. sum=0

for num in range(1,21):

if num%3==0 and num>10:

sum=sum+num

print(sum)

(a) 30 (b) 45 (c) 66 (d) 78 (e) 100

12, 15, 18, 21  
45 421

2. count=0

for num in range(20):

if num%3==0 or num>15:

count=count+1

print(count)

(a) 6 (b) 7 (c) 8 (d) 9 (e) 10

6: 3 6 9  
12 15 16 17 18

3. num1=3

num2=6

num3=8

for i in range(num1,num1\*num2\*num3):

if i%num1==0 and i%num2==0 and i%num3==0:

print(i)

break

(a) 12 (b) 18 (c) 24 (d) 1 4 8 12 (e) 0 2 4

4. num1=3

num2=6

num3=8

for i in range(1,100):

if i%num1==0 and i%num2==0 and i%num3==0:

print(i)

(b) 24 48 72 96 (b) 1 (c) 1 2 3 4 6 8 12 24 (d) 1 4 8 12 (e) 0 2 4

Coding question 1: Print out all prime numbers between 101 and 200 (inclusive).

Coding question 2: Count how many prime numbers between 151 and 200 (inclusive). Answer should be 11.

Coding question 3: Count how many composite numbers between 101 and 150 (inclusive). Answer should be 40.