Name_____ Date_____

Coding Practice with Algebraic Expressions

1. Match the code on the left to the correct output on the right.
   Then describe the output.

Code	Output		
a) Matches Output A, B, or C? (circle one)	**A**	0	1
		1	4
```for i in range (1,5):```		2	7
``` termNumber = i```		3	10
``` termValue = 5 * termNumber```		4	13
``` print (termNumber, '\t', termValue)```		5	16
What is the numerical coefficient, or multiplier?		6	19
What is the constant?		7	22
What is the algebraic expression?		8	25
		9	28
b) Matches Output A, B, or C? (circle one)	**B**	1	5
		2	10
```for i in range (0,5):```		3	15
``` termNumber = i```		4	20
``` termValue = 5 * termNumber + 2```			
``` print (termNumber, '\t', termValue)```			
What is the numerical coefficient, or multiplier?			
What is the constant?			
What is the algebraic expression?			
c) Matches Output A, B, or C? (circle one)	**C**	0	2
		1	7
```for i in range (0,10):```		2	12
``` termNumber = i```		3	17
``` termValue = 3 * termNumber + 1```		4	22
``` print (termNumber, '\t', termValue)```			
What is the numerical coefficient, or multiplier?			
What is the constant?			
What is the algebraic expression?			

Coding Practice with
Algebraic Expressions (cont'd)

2. This code produces the output shown.

Code	Output	
```for i in range (1,11):```	1	5
``` termNumber = i```	2	9
``` termValue = 4 * termNumber + 1```	3	13
``` print (termNumber, '\t', termValue)```	4	17
	5	21
	6	25
	7	29
	8	33
	9	37
	10	41

How would you alter the code to generate this output?

1	8
2	15
3	22
4	29
5	36
6	43
7	50
8	57
9	64
10	71

3. Predict the output when this code is executed.

Code:

```
for i in range (0,11):
    termNumber = i
    termValue = 10 * termNumber + 3
    print (termNumber, '\t', termValue)
```