

additional practice

NAME _____

DATE _____

Module 9 Using Functions
Lesson 3 Writing Functions from Patterns

For each table, write a function to represent the pattern shown.

1.

Input	Output
0	1
1	2
2	3
3	4
4	5

2.

Input	Output
-2	-4
0	-2
3	1
4	2
8	6

3.

Input	Output
-4	-8
-1	-2
0	0
2	4
5	10

4.

Input	Output
-12	3
-4	1
0	0
4	-1
16	-4

5.

Input	Output
0	2
1	5
2	8
4	14
5	17

6.

Input	Output
-8	-3
-4	-1
0	1
4	3
10	6

7.

Input	Output
-9	-4
-3	-2
6	1
12	3
21	6

8.

Input	Output
-4	6.5
-2	4.5
3	-0.5
4	-1.5
10	-7.5

9.

Input	Output
-2	2
-1	2
3	2
8	2
11	2



For each table, write a function to represent the pattern shown. Then use the function to complete the table.

10.

Input	Output
-2	2
-1	1
0	0
1	-1
3	-3
5	

11.

Input	Output
-4	5
-2	3
0	1
2	-1
4	-3
6	

12.

Input	Output
-20	-4
-15	-3
-10	-2
-5	-1
0	0
10	

13.

Input	Output
-5	24
-2	3
2	3
3	8
5	24
8	

14.

Input	Output
-5	$-\frac{4}{3}$
-2	$\frac{2}{3}$
0	2
1	$\frac{8}{3}$
3	

15.

Input	Output
-3	2
-1	-2
2	-8
4	-12
6	-16
10	

