

Practice

1. Copy and complete each table.

Explain how the Output number is related to the Input number.

a)

Input	Output
x	$2x$
1	
2	
3	
4	
5	

b)

Input	Output
m	$10 - m$
1	
2	
3	
4	
5	

c)

Input	Output
p	$3p + 5$
1	
2	
3	
4	
5	

2. Use algebra. Write a relation for each Input/Output table.

a)

Input	Output
n	
1	7
2	14
3	21
4	28

b)

Input	Output
n	
1	4
2	7
3	10
4	13

c)

Input	Output
n	
1	1
2	3
3	5
4	7

3. **Assessment Focus** For each table, find the output. Explain how the numbers 3 and 4 in each relation affect the output.

a)

Input	Output
n	$3n + 4$
1	
2	
3	
4	

b)

Input	Output
n	$4n + 3$
1	
2	
3	
4	

4. Use algebra. Write a relation for each Input/Output table.

a)

Input	Output
x	
1	5
2	8
3	11
4	14

b)

Input	Output
x	
1	1
2	7
3	13
4	19

c)

Input	Output
x	
1	8
2	13
3	18
4	23

5. **Take It Further**

- Describe the patterns in this table.
- Use the patterns to extend the table 3 more rows.
- Use algebra. Write a relation that describes how the output is related to the input.

Input	Output
x	
5	1
15	3
25	5
35	7
45	9
55	11

Reflect

Your friend missed today's lesson. Explain how to write the relation represented by an Input/Output table.