Name: Date: Period:

Find the function rule for each table, then use the function rule to complete the last row in the table.

1.

Input	Output
# of people	Cost ($)
1	9
2	18
3	27
4	36
10	

Find m | Find b in y = mx + b

Re-write: _____

Use equation to find cost for 10 people:

2.

Input	Output
Miles	Cost ($)
10	20
20	50
30	80
40	110
120	

Find m | Find b in y = mx + b

Re-write: _____

Use equation to find the cost for 120 miles:

3.

Input	Output
Bagels	Cost ($)
6	3.00
12	6.00
24	12.00
36	

Find m | Find b in y = mx + b

Re-write: _____

Use equation to find cost of 3 dozen bagels:

Tell whether each relationship is a function and state why or why not.

4.

Input	12	14	16	18	20
Output	5	15	5	15	5

5.

Input	8	12	16	16	20
Output	10	14	12	16	18

6. (-1, 5), (-2, 5), (-3, 5), (-4, 5), (-5, 5)

7. (0, 17), (2, 26), (4, 8), (6, 25), (8, 1)

8. Find the function rule:

x	y
-3	-30
-1	-10
2	20
6	60

Find m:

Find b:

Re-write:

9. Find the function rule:

x	-5	-1	3	7
y	-9	-5	-1	3

Find m: | Find b: | Re-write:

10. Find the function rule:

x	y
-2	-3
1	3
3	7
5	11

Find m:

Find b:

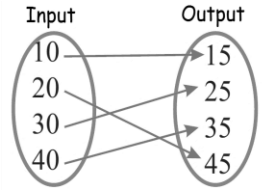
Re-write:

11. Find the function rule:

x	-2	1	3	5	7
y	-5	1	5	9	13

Find m: | Find b: | Re-write:

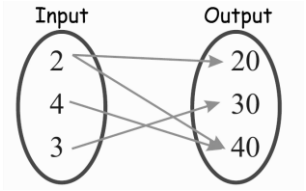
12. Does the mapping diagram represent a function?



___ Yes ___ No

Explain:

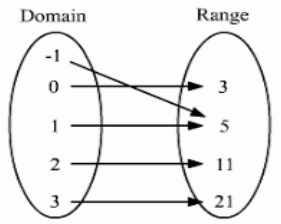
13. Does the mapping diagram represent a function?



___ Yes ___ No

Explain:

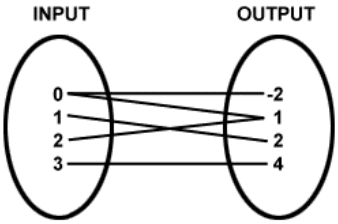
14. Does the mapping diagram represent a function?



___ Yes ___ No

Explain:

15. Does the mapping diagram represent a function?

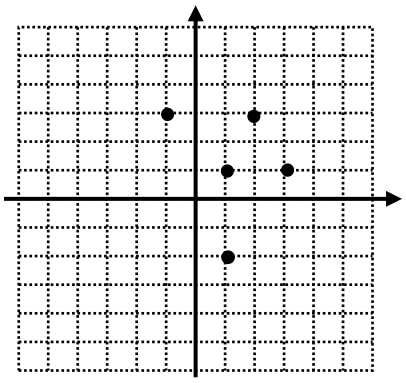


___ Yes ___ No

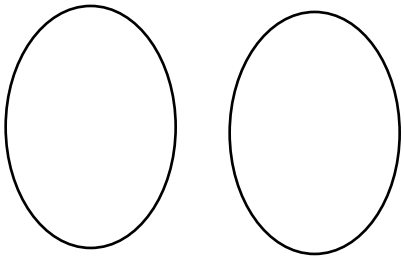
Explain:

For questions 16 & 17, list the points from the graphs as ordered pairs, then create a mapping diagram of the relation. Tell whether the relation is a function and explain why or why not.

16.



Ordered Pairs:

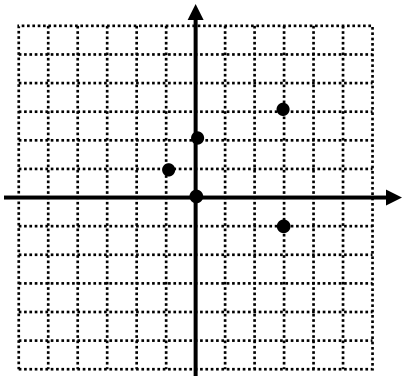


Is the relation a function?

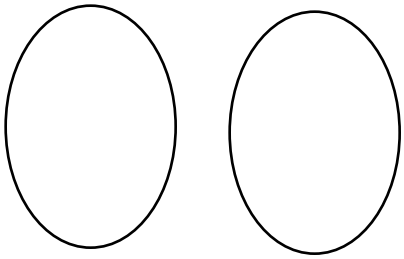
_____ Yes _____ No

Explain:

17.



Ordered Pairs:



Is the relation a function?

_____ Yes _____ No

Explain: