

DIRECTIONS: Find the rule to describe the pattern in the table. Decide if the rule is additive or multiplicative. Graph the ordered pairs on the coordinate grid provided.

6.

Input	Output
m	n
1	7
2	14
3	21
4	28

The rule is _____.

Rule: _____.

7.

Input	Output
x	y
2	6
4	8
6	10
8	12

The rule is _____.

Rule: _____.

8.

Input	Output
p	q
3	8
5	10
7	12
9	14

The rule is _____.

Rule: _____.

9.

Input	Output
s	t
4	8
6	12
8	16
10	20

The rule is _____.

Rule: _____.

10.

Input	Output
j	k
1	3
4	12
7	21
10	30

The rule is _____.

Rule: _____.

Name _____

11. If c is cups of sugar and b is number of batches of cookies, which rule matches the information in the table?

Input	Batches	b	2	3	4
Output	Cups	c	4	6	8

- a. The output is $b \times 2$.
- b. The output is $c \times 2$.
- c. The output is $b + 2$.
- d. The output is $c + 2$.

12. Jenny paints beach scenes on note cards. She sells packages of 8 note cards for \$8 for one package, \$16 for 2 packages, and \$24 for 3 packages. Which equation is the rule for the pattern if n is the number of packages and d is the selling price in dollars?

- a. $n = 8d$
- b. $d = 8 + n$
- c. $n = 8 + d$
- d. $d = 8n$

13. Erin uses the equation $e = 25b$ to determine how much she earns for selling hand-carved bowls at the craft fair. If b represents the number of bowls sold and e represents her earnings, how much will Erin earn if she sells 9 bowls?

Number of Bowls	1	2	3
Earnings	\$25	\$50	\$75

- a. \$225
- b. \$100
- c. \$150
- d. \$45

14. Which of the following rules describes the pattern in the table?

Input	Output
h	j
3	12
4	13
5	14

- a. $j = h + 9$
- b. $j = 9h$
- c. $h = j + 9$
- d. $h = 9j$

15. The equation $d = m + 16$ represents the total distance traveled after driving m number of miles. If Mrs. Endo drives 35 miles, what is the total distance traveled?

- a. 41 miles
- b. 21 miles
- c. 51 miles
- d. 19 miles

16. Stephanie uses the pattern rule $y = 4 + b$ to generate the first three outputs in the pattern. Which of the following is the fifth output in the pattern?

Input	b	1	2	3	4	5
Output	y	5	6	7		

- a. 5
- b. 9
- c. 8
- d. 10