Name _____

Practice
15-2

Patterns and Equations

Write a rule and an equation to fit the pattern in each table in **1** through **6**.

1.

x	0	1	2	3	4
y	5	6	7	8	9

2.

x	12	18	21	24	36
y	4	6	7	8	12

3.

x	11	14	18	21	25
y	3	6	10	13	17

4.

x	0	1	2	4	6
y	0	4	8	16	24

5.

x	3	9	13	22	27
y	10	16	20	29	34

6.

x	0	1	2	3	4
y	0	3	6	9	12

7. The Gadget Factory sells winkydiddles in different quantities, as shown by the table. How much would ten winkydiddles cost?

Number of Winkydiddles	7	12	26	31
Cost	$24.50	$42.00	$91.00	$108.50

8. Which equation best describes the pattern in the table?

x	4	9	12	16	19
y	2	4.5	6	8	9.5

A $y = 2x$ **B** $y = x - 1$ **C** $y = \frac{x}{2}$ **D** $y = x + 1$

9. Writing to Explain All the values of x in a table are greater than the corresponding values of y. If x is a positive integer, what operation(s) and circumstance(s) could explain this pattern?