



4-9 Additional Practice

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In 1–4, write a rule and an equation that represents the pattern in each table.

1.

x	3	6	11	13	15
y	5	8	13	15	17

2.

x	2	5	6	8	9
y	6	15	18	24	27

3.

x	4	12	20	36	40
y	1	3	5	9	10

4.

x	5	7	9	10	12
y	0	2	4	5	7

In 5–8, use the equation to complete each table.

5. $y = 3x + 7$

x	0	1	2	3
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

6. $y = 4x - 4$

x	2	4	6	8
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

7. $y = 2x + 7$

x	1	3	5	7
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

8. $y = \frac{1}{4}x + 5$

x	0	4	8	12
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

9. Complete the table to show a pattern. Then write a rule and an equation for the pattern.

x	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

10. Explain how you would find the pattern in this table and how you would write a rule and an equation for the pattern.

x	4	5	7	10	12
y	0	1	3	6	8

11. Grace has \$100. She is buying charms for her bracelet that cost \$5 each. Write an equation showing the relationship between the number of charms, c , she buys and the amount of money she has left, m .

12. Use the equation you wrote for Exercise 11 to find the number of charms Grace can buy before she runs out of money.



In 13 and 14, use the table.

- 13. Reasoning** The Gadget Factory sells winkydiddles. The table shows the cost, c , of w winkydiddles. If each winkydiddle costs the same amount, what is the price of each winkydiddle? © MP.2

Number of Winkydiddles, w	7	12	26	31
Cost, c	\$24.50	\$42.00	\$91.00	\$108.50

14. Write an equation that can be used to find c , the cost of w winkydiddles.

In 15 and 16, write an equation that describes the pattern in each table.

15.

x	4	6	8	10	12
y	11	13	15	17	19

16.

x	5	6	7	10	11	12
y	2.5	3	3.5	5	5.5	6

In 17 and 18, the equation $\ell = 3w$ represents that the length, ℓ , of a rectangle is 3 times its width, w .

- 17. Model with Math** Create a table to show the length of the rectangle when its width is 1, 2, 3, 5, and 8 units. © MP.4

- 18. Higher Order Thinking** How could you use the equation $p = 2\ell + 2w$ to find the perimeter, p , of the rectangle when its width, w , is 15?

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19. The table shows the total cost, c , for the number of raffle tickets purchased, t . Write an equation that can be used to find the cost, c , of 10 raffle tickets. Use the equation and complete the table to find the cost of 10 tickets.

Number of Tickets, t	5	8	10	11
Cost, c	\$417.50	\$668	<input type="text"/>	\$918.50

