

Practice & Problem Solving

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In 8 and 9, write a rule and an equation that represents the pattern in each table.

8.

x	1	2	3	4	5
y	33	34	35	36	37

9.

m	0	1	2	3	4
n	0	3	6	9	12

In 10 and 11, write a rule and an equation that represents the pattern in each table. Then complete the table.

10.

g	32	37	42	47	52
k	17	22	27	<input type="text"/>	<input type="text"/>

11.

x	0	9	18	27	36
y	0	1	2	<input type="text"/>	<input type="text"/>

12. To celebrate its 125th anniversary, a company produced 125 expensive teddy bears. These "125 Karat Teddy Bears" are made of gold thread and have diamonds for eyes. The table shows the approximate cost of different numbers of these bears. Write an equation that can be used to find c , the cost of n bears.

Cost of "125 Karat Teddy Bears"

Number, n	Cost, c
4	\$188,000
7	\$329,000
11	\$517,000

13. Andrea attends the county fair. The fair charges for admission and for each ride.

a. Use the pattern in the table to find the cost for Andrea to ride 5 rides or 8 rides. Then write an equation for the pattern.

Rides, r	Cost, c
3	\$15.50
4	\$18.00
5	<input type="text"/>
6	\$23.00
8	<input type="text"/>

b. Find the cost, c , for 12 rides.



In 14 and 15, write an equation that best describes the pattern in each table.

14.

w	2	4	6	8	10
z	0	2	4	6	8

15.

x	0	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$
y	0	2	4	6	8	10

In 16–19, use the equation to complete each table.

16. $t = 5d + 5$

d	0	1	2	3	4
t	5	10	15	<input type="text"/>	<input type="text"/>

17. $y = \frac{1}{2}x - 1$

x	2	4	6	8	10
y	0	1	2	<input type="text"/>	<input type="text"/>

18. $y = 2x + 1$

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

19. $b = \frac{a}{2} - 2$

a	17	14	11	8	5
b	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

20. **Higher Order Thinking** Maya wrote the equation $h = d + 22$ to represent the relationship shown in the table. Is this equation correct? Explain.

h	3	5	7	9
d	33	55	77	99

Assessment Practice

21. The table below shows the total cost, c , for the number of movie tickets purchased, t . Write an equation that can be used to find the cost, c , of 5 movie tickets. Use the equation and complete the table to find the cost of 5 tickets.

Number of Tickets, t	3	5	7	9
Cost, c	\$26.25	<input type="text"/>	\$61.25	\$78.75