

REVIEW: Describing Linear Patterns

Name _____

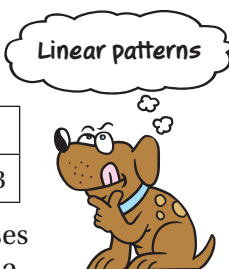
Key Concept and Vocabulary

Equation: $y = 2x + 3$

Table:

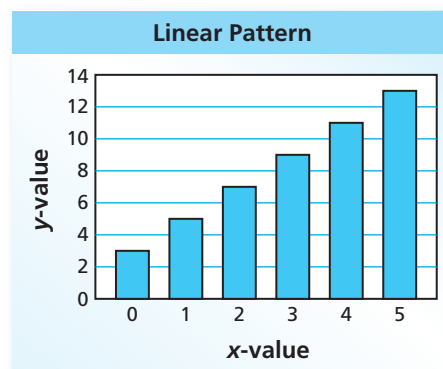
x	0	1	2	3	4	5
y	3	5	7	9	11	13

Words: Each time x increases by 1, y increases by 2.



Visual Model

Moving to the right, each bar increases by 2 units.



Skill Example

1. **Equation:** $y = 15 - 3x$

Table:

x	0	1	2	3	4	5
y	15	12	9	6	3	0

Words: Each time x increases by 1, y decreases by 3.

Application Example

2. The equation $P = 5t$ describes how much pay P (in dollars) you earn for working t hours. Make a table and describe the pattern.

t	1	2	3	4	5	6
P	5	10	15	20	25	30

••• You get paid \$5 an hour.

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Check your answers at BigIdeasMath.com.

Complete the table. Then describe the pattern.

3. $y = x + 7$

x	0	1	2	3	4	5
y						

4. $y = 9 - x$

x	0	1	2	3	4	5
y						

5. $y = 4x + 5$

x	0	1	2	3	4	5
y						

6. $y = 90 - 6x$

x	0	1	2	3	4	5
y						

Write an equation for the pattern.

7.

x	0	1	2	3	4	5
y	5	14	23	32	41	50

8.

x	0	1	2	3	4	5
y	50	40	30	20	10	0

9. **HOURLY PAY** The equation $P = 7t$ describes how much pay P (in dollars) you earn for working t hours. Describe the pattern. _____