

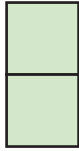
# Understand the Main Idea

**Objective** Describe different ways to show number patterns and functions.

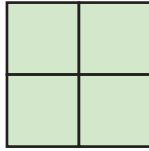
## Learn the Main Idea

Look for a pattern in the pictures.

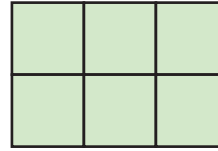
1.



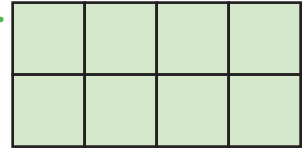
2.



3.



4.



You can show number patterns in different ways.

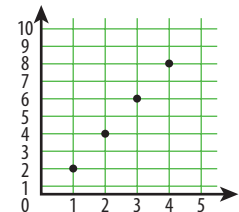
You can make a function table.

Picture (x)	Number of Squares (y)
1	2
2	4
3	6
4	8

You can write an equation.

The value of  $y$  (the number of squares) is always two times greater than the value of  $x$  (the picture number).  
The equation is  $y = 2x$ .

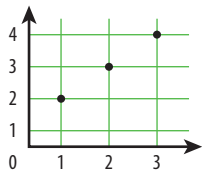
You can show the pattern on a graph.



**MAIN IDEA** Function tables show number patterns. You can also show number patterns in equations or in graphs.

## Practice Applying the Main Idea

**Directions** Draw a line to connect each picture with the word that describes how it shows number patterns. Answer number 4 in a complete sentence.



$$y = x + 1$$

X	Y
1	2
2	3
3	4

1 equation

2 graph

3 function table

- 4 Write a sentence to tell why it is good to have more than one way to show number patterns. \_\_\_\_\_  
\_\_\_\_\_