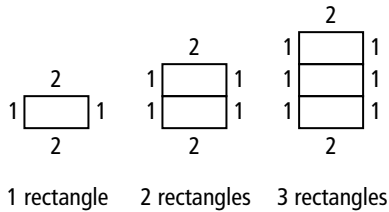# Practice

Form K

Patterns and Linear Functions

1. For the diagram below, find the relationship between the number of shapes and the perimeter of the figure they form. Represent this relationship using a table, words, an equation, and a graph.

1 rectangle   2 rectangles   3 rectangles

For each table, determine whether the relationship is a function. Then represent the relationship using words, an equation, and a graph.

2.

x	y
0	2
1	3
2	4
3	5

3.

x	y
0	5
1	7
2	9
3	11

Practice (continued)   *Form K*

Patterns and Linear Functions

For each table, identify the dependent and independent variables. Then describe the relationship using words, an equation, and a graph.

4.

x	y
0	−2
1	−1
2	0
3	1

5.

n	m
0	1
1	−2
2	−5
3	−8

6. Reasoning Graph the set of ordered pairs (0, 6), (1, 4), (2, 2), (3, 0). Determine whether the relationship is a linear function. Explain how you know.