

Practice B

For use with pages 385–390

Lesson 8.1

Identify the domain and range of the relation.

1. $(5, 0), (6, 0), (7, 6), (8, 8), (8, 10)$

2. $(-6, 4), (-3, 0), (4, 2), (4, 3), (7, 9)$

3.

x	-4	-4	-1	3	4
y	-5	-4	-3	2	0

4.

x	0	0	2	4	8
y	-3	-1	1	3	-1

Represent the relation as a graph and as a mapping diagram. Then tell whether the relation is a function. Explain your reasoning.

5. $(-2, 2), (-1, 2), (1, 2), (2, 2)$

6. $(0, 0), (1, 1), (1, 2), (3, 3), (4, 4)$

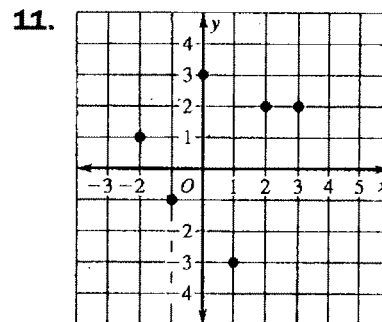
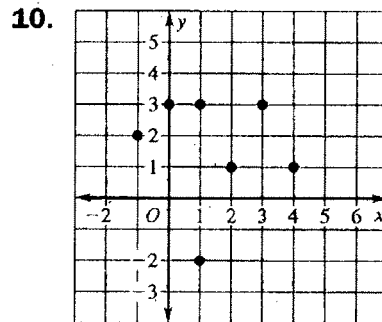
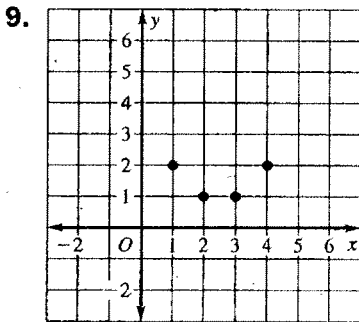
7.

x	-2	-1	0	1	2
y	1	2	2	1	0

8.

x	2	4	1	2	5
y	3	1	3	2	4

In Exercises 9–11, tell whether the relation represented by the graph is a function.



12. Twenty children line up to ride go-carts. The go-cart operator collects \$2 from each child in order from the 1st to the 20th in the line. Do the ordered pairs (child number, amount paid) represent a function? Explain your reasoning.

13. The table shows the number of stories and height of five buildings in the United States.

Building	Number of stories, x	Height (in feet), y
Bank of America Plaza	55	1023
Empire State Building	102	1250
Library Tower	75	1018
Sears Tower	110	1450
JP Morgan Chase Tower	75	1002

- Identify the domain and range of the relation given by the ordered pairs (x, y) .
- Draw a mapping diagram for the relation.
- Is the relation a function? Explain.