

Practice A

For use with pages 385–390

Complete the statement.

- Each number in the ? of a relation is an input.
- Each number in the ? of a relation is an output.

Identify the domain and range of the relation.

- $(0, 2), (1, 4), (2, 6), (3, 8), (4, 10)$
- $(3, 4), (3, 5), (4, 6), (4, 7), (5, 8)$

5.

x	0	2	2	3
y	5	5	6	6

6.

x	1	4	7	10	13
y	-5	-4	-3	-2	-1

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

- $(-2, 1), (0, 4), (1, 3), (2, 3)$
- $(2, -1), (2, 1), (3, 2), (3, 0), (4, 0)$
- $(-3, 0), (-2, 0), (-1, 1), (0, 1)$
- $(0, 1), (0, 2), (1, 3), (1, 4), (1, 5)$

11.

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

12.

x	5	6	6	8	8
y	3	3	4	4	5

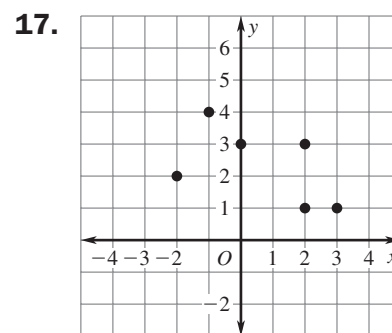
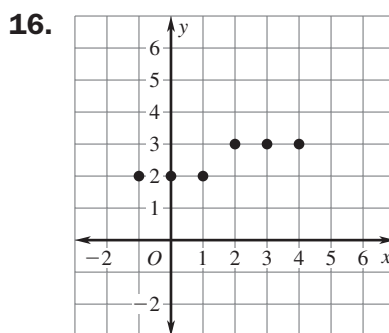
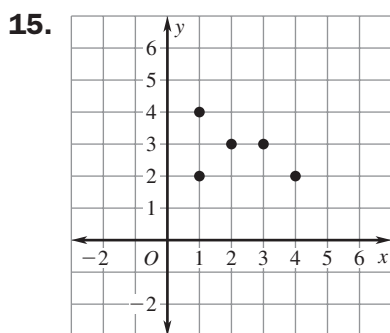
13.

x	4	6	8	10
y	4	6	4	6

14.

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

In Exercises 15–17, tell whether the relation represented by the graph is a function.



- The amount of precipitation in millimeters is measured every day from day 1 to day 20. Do the ordered pairs (day, precipitation) represent a function? Explain.
- Terrance receives \$.50 per pound of aluminum cans he recycles. Is the number of cans he recycles a function of the amount of money he receives? Explain.