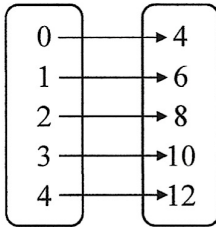


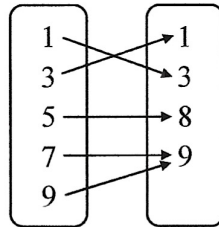
# Chapter 9 Test A

List the ordered pairs shown in the mapping diagram.

1. Input Output



2. Input Output



3. The table shows the area of a triangle with base 8 centimeters and various heights.

Height (cm)	4	5	6	7	8
Area (cm <sup>2</sup> )	16	20	24	28	32

- Use the table to draw a mapping diagram.
- What output would you expect for an input of 10 centimeters? Explain.

Find the value of  $y$  for the given value of  $x$ .

- $y = x - 5$ ;  $x = 9$
- $y = 4x$ ;  $x = 7$

Tell whether the ordered pair is a solution of the equation.

- $y = 3x + 4$ ;  $(3, 11)$
- $y = x + 8$ ;  $(4, 12)$

8. Write an equation for the function shown by the table.

Input, $x$	0	1	2	3	4
Output, $y$	0	5	10	15	20

9. Write an equation for the function “The output is 4 more than the input.” Then complete the table.

Input, $x$	1	2	3	4
Output, $y$				

### Answers

- \_\_\_\_\_
- \_\_\_\_\_
- a. See left.
- b. See left.
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

See left.