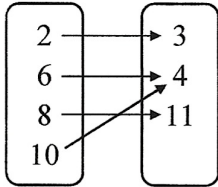


**Chapter 9 Quiz**

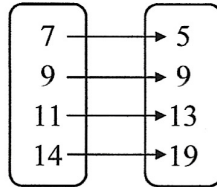
For use after Section 9.3

List the ordered pairs shown in the mapping diagram.

1. **Input**      **Output**



2. **Input**      **Output**



**Answers**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. **See left.**
11. a. \_\_\_\_\_  
b. \_\_\_\_\_

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

3.  $y = \frac{1}{2}x$ ;  $x = 18$       4.  $y = 4x + 6$ ;  $x = 1$       5.  $y = 6x + 2$ ;  $x = \frac{1}{3}$

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

6.  $y = 3x - 5$ ;  $(2, 1)$       7.  $y = 11x$ ;  $(12, 121)$       8.  $y = \frac{x}{4} + 6$ ;  $(16, 10)$

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

<b>Input, <math>x</math></b>	1	2	3	4
<b>Output, <math>y</math></b>	5	10	15	20

10. You ride your bicycle at a steady pace of two meters every second. Complete the input-output table. Then write a function rule in which  $x$  is the input and  $y$  is the output.

<b>Time, <math>x</math></b>	1	4		12
<b>Distance, <math>y</math></b>	2	8	12	

11. You have \$30 and a bag of pretzels from the vending machine costs \$1.50.
- a. Write an equation you can use to find the number of dollars  $d$  remaining after you buy  $p$  bags of pretzels.
  - b. What is the greatest number of bags of pretzels you can buy from the vending machine?