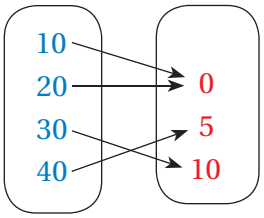
English Spanish

9.1–9.3 Quiz

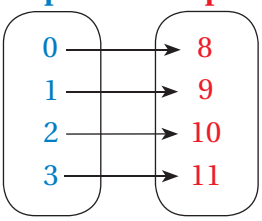
Check It Out
Progress Check
BigIdeasMath.com

List the ordered pairs shown in the mapping diagram. *(Section 9.1)*

1.



2.



Find the value of y for the given value of x. *(Section 9.2)*

3. $y = 10x;\ x = 4$

4. $y = 2x - 6;\ x = 11$

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

Tell whether the ordered pair is a solution of the equation. *(Section 9.2)*

6. $y = x - 1;\ (5, 6)$

7. $y = 5x + 3;\ (3, 18)$

8. $y = \frac{x}{7};\ (42, 6)$

9. Write an equation for the function "The output is the product of 9 and the input." Then copy and complete the table. *(Section 9.3)*

Input, x	1	2	3	4
Output, y				

10. Write an equation for the function shown by the table. *(Section 9.3)*

Input, x	0	8	16	24
Output, y	0	1	2	3

11. **RACE** You run a 10-kilometer race at a steady pace of 1 kilometer every 6 minutes. Copy and complete the input-output table. Then write a function rule in which x is the input and y is the output. *(Section 9.3)*

Distance, x	1	2	6		10
Time, y	6	12	36	48	

12. **PUPPIES** The table shows the ages of four puppies and their weights. Use the table to draw a mapping diagram. *(Section 9.1)*

Age (weeks)	Weight (oz)
3	11
4	85
6	85
10	480

13. **GIFT CARD** You have a $45 gift card for an online music store. Each song costs $0.90. *(Section 9.2)*

a. Write an equation you can use to find the number of dollars d remaining on the card after you buy s songs.

b. What is the greatest number of songs you can buy with the gift card?