

TABLES Make a table for the function. Identify the range of the function.

14. $y = x - 3$ Domain: 12, 15, 22, 30
15. $y = x + 3.5$ Domain: 4, 5, 7, 8, 12
16. $y = 3x + 4$ Domain: 0, 5, 7, 10
17. $y = \frac{1}{2}x + 3$ Domain: 4, 6, 9, 11
18. $y = \frac{2}{3}x + \frac{1}{3}$ Domain: 4, 6, 8, 12
19. $y = \frac{0.5x + 1}{2}$ Domain: 0, 2, 4, 6

FUNCTION RULES Write a rule for the function.

20.

Input, x	0	1	2	3
Output, y	2.2	3.2	4.2	5.2
21.

Input, x	15	20	21	30	42
Output, y	7	12	13	22	34

22. **CHALLENGE** Fill in the table in such a way that when t is the independent variable, the pairing is a function, and when t is the dependent variable, the pairing is not a function.


t	?	?	?	?
v	?	?	?	?

PROBLEM SOLVING**EXAMPLE 5**

on p. 37
for Exs. 23–26

23.  **MULTIPLE REPRESENTATIONS** You have 10 quarters that you can use for a parking meter.

- a. **Describing in Words** Copy and complete: Each time you put 1 quarter in the meter, you have 1 less quarter, so ? is a function of ?.
- b. **Writing a Rule** Write a rule for the number y of quarters that you have left as a function of the number x of quarters you have used so far. Identify the domain of the function.
- c. **Making a Table** Make a table and identify the range of the function.


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24.  **MULTIPLE REPRESENTATIONS** At a yard sale, you find 5 paperback books by your favorite author. Each book is priced at \$.75.

- a. **Describing in Words** Copy and complete: For each book you buy, you spend \$.75, so ? is a function of ?.
- b. **Writing a Rule** Write a rule for the amount (in dollars) you spend as a function of the number of books you buy. Identify the domain of the function.
- c. **Making a Table** Make a table and identify the range of the function.

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25. **SAVINGS** You have \$100 saved and plan to save \$20 each month. Write a rule for the amount saved (in dollars) as a function of the number of months from now. Identify the independent and dependent variables, the domain, and the range. How much will you have saved altogether 12 months from now?

26.  **TAKS REASONING** Write a function rule that models a real-world situation. Identify the independent variable and the dependent variable.