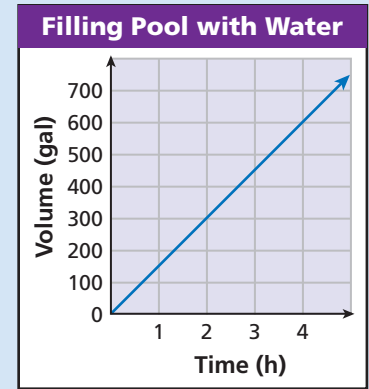


Real-World Connections



29. a. The graph shows the amount of water being pumped into a pool over a 5-hour time period. Find the domain and range.
- b. Does the graph represent a function? Explain.
- c. Give the time and volume as ordered pairs at 2 hours and at 3 hours 30 minutes.



- HOT** 30. **/// ERROR ANALYSIS ///** When asked whether the relation $\{(-4, 16), (-2, 4), (0, 0), (2, 4)\}$ is a function, a student stated that the relation is not a function because 4 appears twice. What error did the student make? How would you explain to the student why this relation is a function?
- HOT** 31. **Write About It** Describe a real-world situation for a relation that is NOT a function. Create a mapping diagram to show why the relation is not a function.

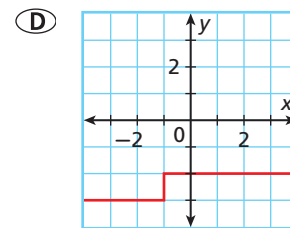
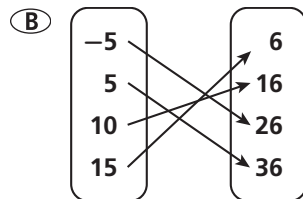
TEST PREP

32. Which of the following relations is NOT a function?

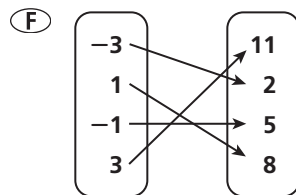
(A) $\{(6, 2), (-1, 2), (-3, 2), (-5, 2)\}$

(C)

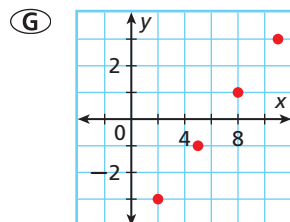
x	3	5	7
y	1	15	30



33. Which is NOT a correct way to describe the function $\{(-3, 2), (1, 8), (-1, 5), (3, 11)\}$?



- (H) Domain: $\{-3, 1, -1, 3\}$
Range: $\{2, 8, 5, 11\}$



(J)

x	y
-3	2
-1	5
1	8
3	11