UNIT 1 • INTRODUCTION TO FUNCTIONS AND EQUATIONS Lesson 1.9: Domain and Range

Practice 1.9: Domain and Range

Use what you know about functions, domain, and range to answer each question.

1. Could the following table represent a function? Why or why not?

x	у
1	7
2	6
3	5
4	4
5	3
6	2

2. Could the following table represent a function? Why or why not?

x	у
0	1
2	3
4	5
6	7
8	9
10	1

3. Could the following graph be a function? Why or why not?





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F-IF.1



4. Could the following graph be a function? Why or why not?

5. Does the following set of ordered pairs make up a relation? If so, is the relation also a function? Why or why not?

 $\{(2, 4), (3, 6), (4, 8), (5, 10), (6, 12), (7, 14)\}$

6. Does the following set of ordered pairs make up a relation? If so, is the relation also a function? Why or why not?

 $\{(2, 2), (3, 3), (4, 4), (5, 5), (5, 6), (7, 7)\}$

7. What are the domain and range of the graphed function?





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8. What are the domain and range of the graphed function?

- 9. A candle burns down at a rate of 1 inch per hour. The candle was originally 12 inches tall. The function that describes the height of the candle as it burns can be represented as f(x) = -x + 12, where *x* represents the number of hours the candle burns and f(x) is the height of the candle. Draw a graph of the function. What are the domain and range?
- 10. The distance a trucker travels on the highway at 65 mph can be modeled by the function f(x) = 65x, where *x* is the time in hours and f(x) is the distance in miles. What are the domain and range of the function?