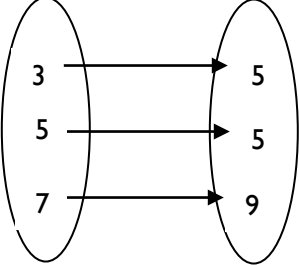# 3.7 To Function or Not to Function

A Practice Understanding Task

Identify the two variables for each situation and determine which is independent and which is dependent. Then, determine if the relationship is a function and justify your reasoning.

1. A person's name versus their social security number.	2. A person's social security number versus their name.	3. The cost of gas versus the amount of gas pumped.
4. { (3,6), (4, 10), (8,12) }	5. The temperature in degrees Fahrenheit with respect to the time of day.	6. <table><tr><td>distance</td><td>days</td></tr><tr><td>6</td><td>2</td></tr><tr><td>10</td><td>4</td></tr><tr><td>6</td><td>5</td></tr><tr><td>9</td><td>8</td></tr></table>
7. The area of a circle as it relates to the radius.	8.	9. The volume of water in a given cylinder is dependent on the height of water in cylinder.

mathematics
vision project

10. The size of the radius of a circle dependent on the area.	11. Students letter grade dependent on the percent earned.	12. The length of fence needed with respect to the amount of rectangular area to be enclosed.
13. The explicit formula for the recursive situation below: f(1) = 3 and f(n + 1) = f(n) + 4	14. If x is a rational number, then f(x) = 1 If x is an irrational number, then f(x) = 0	15. The national debt with respect to time.