

# F-IF The Customers

## Task

A certain business keeps a database of information about its customers.

a. Let  $C$  be the rule which assigns to each customer shown in the table his or her home phone number. Is  $C$  a function? Explain your reasoning.

Customer Name	Home Phone Number
Heather Baker	3105100091
Mike London	3105200256
Sue Green	3234132598
Bruce Swift	3234132598
Michelle Metz	2138061124

b. Let  $P$  be the rule which assigns to each phone number in the table above, the customer name(s) associated with it. Is  $P$  a function? Explain your reasoning.

c. Explain why a business would want to use a person's social security number as a way to identify a particular customer instead of their phone number.

## IM Commentary

The purpose of this task is to introduce or reinforce the concept of a function, especially in a context where the function is not given by an explicit algebraic