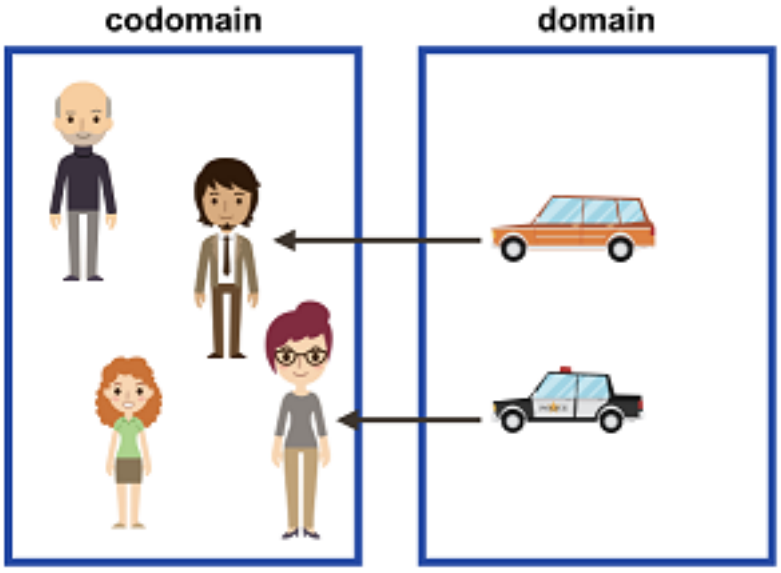
Definition 1. *The map below defines the* ***Driver*** *relation.*



The ***Driver*** *relation includes three sets:*

- *The domain consists of 2 cars identified in the map.*
- *The codomain consists of the 4 drivers identified in the map.*
- *A set of ordered pairs. The pair (car, driver) is a member of the Driver relation if the car is connected to the person with an arrow.*

Exercise 1 *Is Driver a well-defined function?*

Multiple Choice:

(a) *Yes* ✓

(b) *No*

Feedback (attempt): *Each domain car is associated with exactly one codomain driver.*

Exercise 2 *There are the same number of domain items as pairs in the Driver function.*

Multiple Choice:

(a) *True* ✓

(b) *False*

Feedback (attempt): *Each domain car is in exactly one pair.*

Definition 2. *A function is said to be* ***one-to-one*** *if every pair contains a different range item. In other words, there are no repeated function values.*

Exercise 3 *Is Ball a one-to-one function?*

Multiple Choice:

(a) *Yes* ✓

(b) *No*

Feedback (attempt): *Two different drivers in the two pairs.*
