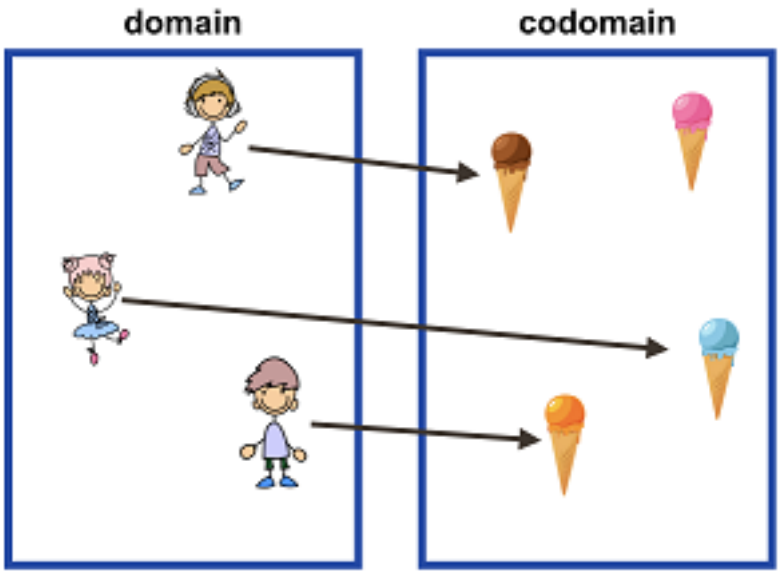
Definition 1. *The map below defines the* ***Cones*** *relation.*



The ***Cones*** *relation includes three sets:*

- *The domain consists of 3 family members identified in the map.*
- *The codomain consists of the 4 ice cream cones identified in the map.*
- *A set of ordered pairs. The pair (person, cone) is a member of the Cones relation if the person is connected to the cone with an arrow.*

Exercise 1 *Are any two domain family members partnered with the same cone in the codomain?*

Multiple Choice:

(a) *Yes*

(b) *No* ✓

Feedback (attempt): *Each family member is connected to a unique cone.*

Exercise 2 *Is Cones a well-defined function?*

Multiple Choice:

(a) *Yes* ✓

(b) *No*

Feedback (attempt): *Each domain person is associated with exactly one codomain cone.*

Exercise 3 *How many items are in the range of Cones?* $\boxed{3}$

Feedback (attempt): *Only three of the four cones have an arrow pointing to them.*

Exercise 4 *Solve Cones(person) =* 

Multiple Choice:

(a) 

(b) 

(c) 

(d) *No Solution* ✓

Feedback (attempt): *There is no arrow pointing to*  .
