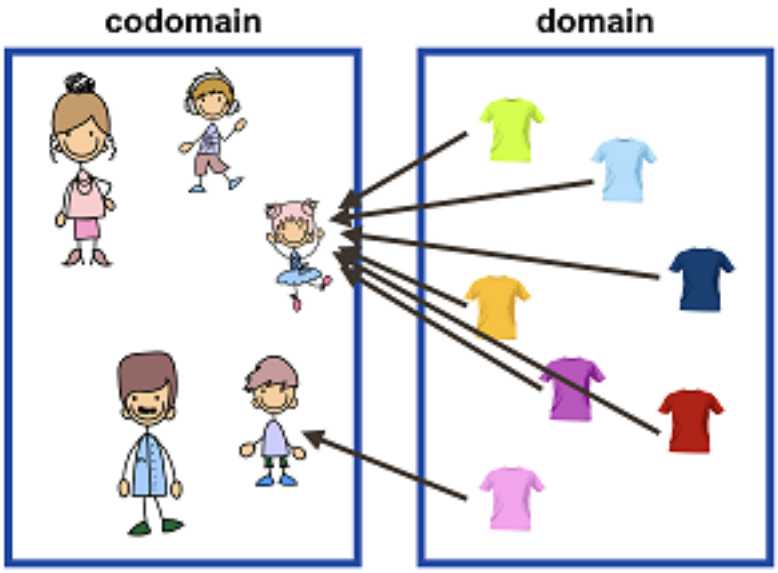
**Definition 1.** *The map below defines the* ***Wardrobe*** *relation.*




*The* ***Wardrobe*** *relation includes three sets:*

- *The domain consists of 7 shirts identified in the map.*
- *The codomain consists of the 5 family members identified in the map.*
- *A set of ordered pairs. The pair (shirt, person) is a member of the Wardrobe relation if the shirt is connected to the family member with an arrow.*

**Exercise 1** *(*  ,  *) ∈ Wardrobe*

***Multiple Choice:***

(a) *True*

(b) *False*✓

***Feedback (attempt):*** *(*  ,  *)*

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

***Multiple Choice:***

(a) *Yes* ✓

(b) *No*

***Feedback (attempt):*** *Each domain shirt is associated with exactly one family member.*

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**Exercise 3** *How many items are in the range of Wardrobe?* 2

***Feedback (attempt):*** *All arrows point to one of two family members.*

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**Exercise 4** *Evaluate Wardrobe(*  *)*

***Multiple Choice:***

(a) 

(b) 

(c)  *is not in the domain* ✓

***Feedback (attempt):*** *The domain of Wardrobe consists of shirts.*

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**Exercise 5** *Evaluate Wardrobe(*  *)*

***Multiple Choice:***

(a) 

(b)  ✓

(c) 

(d) *Not Defined*

***Feedback (attempt):*** *The shirt in the domain is connected to only one family member.*

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**Exercise 6** *The solution set to the equation Wardrobe(shirt) =*  *contains how many elements?* $\boxed{6}$

***Feedback (attempt):*** *Six pairs in the Wardrobe have*  *in the second slot.*

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