$A = \{1, 2, 3\}$

$B = \{2, 3\}$

every element in B is in A

if every element from B is in A is in another, we say that B is a "subset" of A

$B \subset A$

{Kiwi, raspberry, grapes} = F

{Kiwi, grapes, raspberry} = G

G ⊂ F ?

Yes!

F ⊂ G ?

Yes!

Subset

if all $a \in A$ are also in B then

$A \subset B$

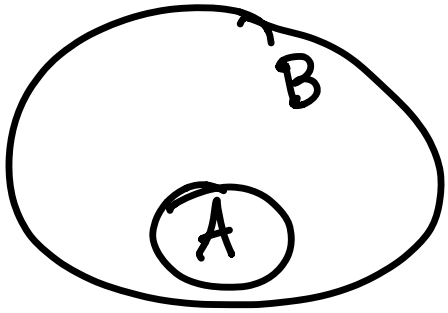
$G \subseteq F$

1. Subset
2. Could be equal

GCF

"Superset"

All elements in A are also in B



$B \supset A$

↑

"superset"

A and B

Is A a subset of B?

A = {dogs, cats, pandas}

B = {elephants}

A ⊂ B?

Step by step instructions

① Compare # of elements
3 in A, 1 in B

Taiji's Solution

② if A has more elements,
$A \not\subset B$

③ if A has the same # or less

④ if all elements in A are in B, $A \subset B$

(4) if all elements of A are in B