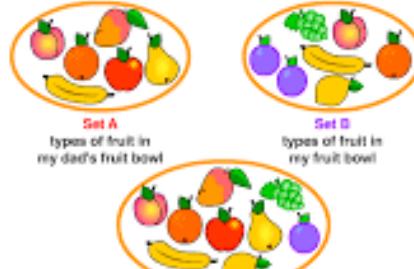


بسم الله الرحمن الرحيم

union of sets

The union of sets results in a set containing all the elements from the given sets.

symbol: \cup



The union of Set A and Set B is written as:

$$A \cup B$$

types of fruit in both our bowls

Repeated items are only counted once.

$$\{2, 4, 6, 8, 10\} \cup \{1, 3, 5, 7, 9\}$$

Set X

even numbers

Set Y

odd numbers

$$\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$$

$X \cup Y$

all numbers

union of sets