

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

union of sets

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

symbol: \cup



Set A
types of fruit in
my dad's fruit bowl



Set B
types of fruit in
my fruit bowl



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.

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

Set X
even numbers

Set Y
odd numbers

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

$X \cup Y$
all numbers

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