



## The Set ADT

The **set** ADT corresponds to a mathematical *set*. A set has these fundamental properties:

- duplicates are not allowed
- order is not preserved

A set may support operations such as these:

- create: construct an empty set
- add: add an element to the set
- contains: does the set contain a given element
- remove: remove an element from the set



## Our Set Interface

We will explore sets using a simple interface:

```
public interface Set<T> {
    boolean add(T value);
    boolean contains(T value);
    int size();
    boolean remove(T value);
}
```