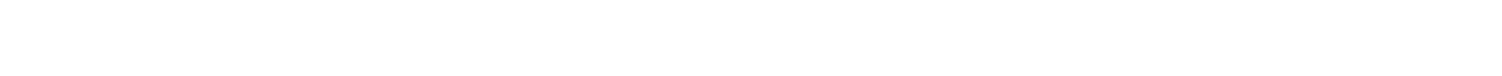


## what is a set?



```
example
set A:
```

the natural numbers from 1 to 7

elements of A: 1,2,3,4,5,6,7set notation:  $A = \{1,2,3,4,5\} = \{1,2,3,...,7\}$ 

cardinality: |A| = 7

## what is a set?

### A set is a collection of <u>elements</u> or <u>members</u>

- curly braces { } used to list elements separated by comma ("Roster Method")
- Ellipsis (...) used within the braces to indicate that list continues in established pattern
- Cardinality of a set: the number of distinct elements in a set

#### example

set A: the natural numbers from 1 to 7

elements of A: 1,2,3,4,5,6,7

set notation:  $A = \{1,2,3,4,5\} = \{1,2,3,...,7\}$ 

cardinality: |A| = 7

# What is a set?

