what is a set?

A set is a collection of elements or members
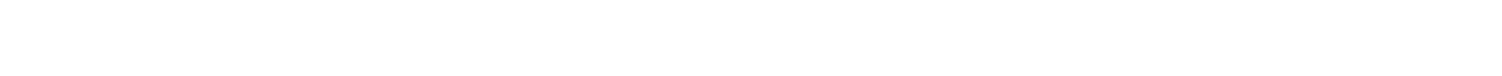
set A: the natural numbers from 1 to 7

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

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

cardinality: $|A| = 7$

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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

<u>example</u>
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

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