

What is a set?

example

set A : the natural numbers from 1 to 7

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

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

cardinality: $|A| = 7$

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A set is a collection of elements or members

- 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

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