→ Set

→ elements

$\{ \ldots, -4, -3, -2, -1, 0, 1, 2, 3, \ldots \}$ (∞ ← … → +∞)

$A = \{1, 2, 3\}$

→ infinite

→ finite

→ equal sets

$B = \{3, 2, 1\}$

$A = B$

$C = \{\text{red}, \text{blue}, \text{green}\}$

$K = \{T, F\}$

→ $\mathbb{N}$ natural $= \{1, 2, 3, \ldots\}$

$\mathbb{Z}$ integers $= \{\ldots, -3, -2, -1, 0, 1, 2, 3, \ldots\}$

$\mathbb{R}$ real numbers $= \{\ldots, -1{,}2, -1, -0{,}9, 0, 0{,}2, 2, 3, \ldots\}$

→ $\in$ $A = \{1, 2, 3\}$

$1 \in A$

$5 \notin A$

→ $P = \{\{1, 2\}, 3, \{4, 5\}\}$

→ size, cardinality of sets

→ P has 3 elements.

→ $|P| = 3$

→ $F = \{\}$ $|F| = 0$ empty set

$\emptyset$