Cardinality

We denote the cardinality of A by |A|. We say:

- |A| = |B| if there exists a bijection $f: A \to B$;
- $|A| \leq |B|$ if there exists a injection $f: A \to B$;
- |A| < |B| if $|A| \le |B|$ and $|A| \ne |B|$, i.e.

 $\exists f : A \to B \text{ injective, but } \not\exists g : A \to B \text{ bijective.}$

Note!

This replicates the results we have already if A, B are finite!