For nonempty sets A, B we say

$|A| \leq |B|$ means there is a one-to-one function with domain A, codomain B
$|A| \geq |B|$ means there is an onto function with domain A, codomain B
$|A| = |B|$ means there is a bijection with domain A, codomain B

For all sets A, we say $|A| = |\emptyset|$, $|\emptyset| = |A|$ if and only if $A = \emptyset$.