MATHEMATICS | STUDY NOTE | 2021-22 CLASS-VI





x ∈./A



Some examples of Roster Form vs Set-builder Form

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Finite Sets & Infinite Sets



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Empty Set

 A set containing no elements at all is called an empty set or a null set or avoid set.



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Singleton Set

- A set containing exactly one element is called a singleton set
 - Example: A = {*a*} or B = {1}

Equal Sets

Two set A and B are said to be equal sets and written as A = B if everyelement of A is in B and every element of B is in A.

Example A = {1, 2, 3, 4} and B = {4, 2, 3, 1}

It is not about the number of elements. It is the elements themselves.

• If the sets are not equal, then we write as A ≠ E Equivalent Sets

 Two finite sets A and B are said to be equivalent, writtenas A ↔ B, if n(A) = n(B), that is they have the same number of elements.

> Example: A = {a, e, i, o, u} and B = {1, 2, 3, 4, 5}, Therefore n(A) =5 and n(B) = 5 therefore A ↔ B

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