Numbers

N = {0,1,2,3,..} The set of Natural numbers

Z = {...,-1,0,1,2,3,...} The set of Integers

Z+ = {1,2,3,4,5,...} The set of Positive integers

Q {p/q | P∈Z and q≠0} The set of Rational numbers

R is the set of Real numbers

Sets

Set is unorder collection of objects

S={A,B,C,D}

Examples (Is this given examples a sets or not?) :

1. A = {1,2,3,4} Yes , It's set

Cardinality = 4

2.{{100}} This is nested set , Set inside another set.

Cardinality = 1

3. {} This is set called an empty set and denoted by ∅

Cardinality = 0

4. {{}} This is another nested empty sets but warning for this!!!

Cardinality = 1 Because the nested set always has Cardinality = 1.

5. {1,2,{3,5,6},6}

Cardinality = 4 1 = 1 2 = 2 Nested set {3,5,6} = 3 6 = 4