## Computers and Its Ports Formula

## 1) Number of Cables:

N --- Number of nodes

Example: 20 - Computers are connected to each other so how many cables are use there:

## 2) Number of Ports:

Formula: (n - 1) \* n

(n - 1) = Number of Ports Total = \* n - total number of ports

Example: How many ports in four nodes

(n – Number of Nodes)

Four nodes have : 3 - ports (n - 1)

(4 - 1) = 3

Total Ports : (4 - 1) \* 4 = 12