

Units of Memory

Bit (Binary Digit)

A binary digit is logical 0 & 1 representing a passive or an active state of a component in an electric circuit.

Nibble

A group of 4 bits is called nibble.

Byte

A group of 8 bits is called byte. A byte is the smallest unit, which can represent a data item or a character.

Word

A computer word like a byte is a group of fixed number of bits processed as a unit which varies from computer to computer but is fixed for each computer. The length of a computer word is called word-size or word length and it may be as small as 8 bits or may be as long as 96 bits. A computer stores the information in the form of the computer words.

Few higher storage units are the following:

Sr. No	Unit	Description
1	Kilobyte (KB)	1 KB = 1024 Bytes
2	Megabyte (MB)	1 MB = 1024 KB
3	GigaByte (GB)	1 GB = 1024 MB
4	TeraByte (TB)	1 TB = 1024 GB
5	PetaByte (PB)	1 PB = 1024 TB

