

Integral DataType

Type	Size	Range	Default
Byte	1	-128 to 127	0
Short	2	-32768 to 32768	0
int	4	-2147483648 to 2147483648	0
long	8	-	0
float	4	+1.4E-45 to +3.4E+38	0.0f
double	8	+4.39E to +1.7E +308	0.0d
Char	2	0 to 65535	\40000
Boolean	?	True/ False	FALSE

- The reason for java having short type of data is for smaller number for efficient memory utilisation , therefore byte is also used for the same purpose
- They are all signed datatype as all of them support both positive and negative datatype

- In bytes one bit is reserved for sign value (+ , -)
- Number can be stored only in 7 bits
- The minimum number that can be stored in this 7 bits is 0 and max is 127
- The negative numbers are stored in two's complement form