

Definition

If a and b are integers, then b divides a , if and only if there is an integer c such that $a = cb$

There is a difference in $b|a$ and b/a

$b|a$ is a relation that is either true or false.

b/a is an operation, it has a numerical value

$0/0$ is undefined

$0|a$ is a true statement because $0 \cdot a = 0$ for all integers a