Definition:	When $a$ and $b$ are integ	ers and $a$ is	s nonzero, $a$	divides	b means the	ere is an	integer	c such
that $b = ac$ .	Symbolically, $F((a,b))$		and i	s a predica	ate over the	domain		Other
(synonymous	s) ways to say that $F((a)$	b) ) is true	•					

a is a **factor** of b a is a **divisor** of b b is a **multiple** of a a|b

When a is a positive integer and b is any integer, a|b exactly when  $b \mod a = 0$  When a is a positive integer and b is any integer, a|b exactly  $b = a \cdot (b \operatorname{\mathbf{div}} a)$