Definition: \	When a and	b are integers	and a is	nonzero, a	divides	b means	there is an	integer	c such
that $b = ac$. S	Symbolically,	F((a,b)) =		and is	s a predic	ate over t	he domain		Other
(synonymous)	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 $b = a \cdot (b \operatorname{\mathbf{div}} a)$