In mathematical logic, a is a se	entence that is SET
either <i>true</i> of <i>false</i> . We can combine	using logical IMPLICATION
, such as $\wedge$ , $\vee$ or $\Rightarrow$ . The last one is called <b>ELEMENT</b>	
and is typically read as 'If, then'  PROPOSITION	
The building blocks of modern mathematics are	RELATION
They are basically collections of things.  are made of are called their	The 'things'
	INTERSECTION
Given $A$ and $B$ , the set that contains only the objects that $A$ and $B$ have in common is denoted $A \cap B$ and called their	
. We can also create a set of all	PRODUCT
$(a,b)$ , basically ordered sets, with $a \in A$ and $b \in B$ . Such a set <b>CONJUNCTION</b>	
is denoted $A \times B$ and called the	of $A$ and $B$ . Any
subset of $A \times B$ is then called a fr	$\operatorname{rom} A  ext{ to } B.$