

TRANSPARENCY MASTERS

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TRUTH OR CONSEQUENCES

Truth Table of the Fundamental Operators

Conjunction Disjunction Negation

p	q	$p \wedge q$	$p \vee q$	$\sim p$	$\sim q$
		<i>AND</i>	<i>OR</i>	<i>NOT</i>	
T	T	T	T	F	F
T	F	F	T	F	T
F	T	F	T	T	F
F	F	F	F	T	T

IF IF IF IF.....
we'd all be rich!

If p , then q .

Definition of Conditional

p	q	$p \rightarrow q$
		<i>IMPLIES</i>
T	T	T
T	F	F
F	T	T
F	F	T

Speak the language . . .

ADDITIONAL OPERATORS

p	q	$(p \vee q) \wedge \sim (p \wedge q)$	$\sim (p \vee q)$
		No p is q	Neither p nor q
T	T	F	F
T	F	T	F
F	T	T	F
F	F	F	T

p	q	$\sim q \rightarrow p$	$(p \wedge q) \wedge (q \rightarrow p)$	$p \rightarrow \sim q$
		p unless q	p because q	No p is q
T	T	T	T	F
T	F	T	F	T
F	T	T	F	T
F	F	F	F	T