

Name _____

Date _____

Conjunctions [asks for Logic Table]- Guided Lesson Explanation

If the original is true, the $\sim$ statement is false, and if the original is false, the $\sim$ statement is true. Statement " $\wedge$ " symbolizes logical conjunction; a compound statement formed with this connective is true only if both of the component statements between which it occurs are true. In truth table the original component statements between which it occurs are true, then the statement is true.

Explanation # 1

In original truth table $\sim F$ is true, then $\sim F$ is false.

F	G	$\sim F$	$\wedge G$
T	F	F	F
F	T	T	T

Explanation # 2

In truth table original of R is true, then $\sim R$ is false.

R	S	$\sim R$	$\sim S$	$\sim R \wedge \sim S$
T	T	F	F	F
F	F	T	T	T

Explanation # 3

In original truth table H is true, then $\sim H$ is false.

H	I	$\sim H$	$\wedge I$
F	T	T	T
T	F	F	F

