

Chapter 1: Logic

Section 1.3: Introduction to Logic and Symbolic Logic

What is logic? LOGIC IS THE SCIENCE OF THINKING & REASONING CORRECTLY. SEQUENCES OF STATEMENTS ARE USED TO DISPROVE OR PROVE ARGUMENTS.

What is a statement? A STATEMENT IS A COMPLETE SENTENCE THAT IS EITHER TRUE OR FALSE BUT NOT BOTH.

Examples of Statements (and non-statements):

TODAY IS WEDNESDAY. ✓
IT IS SNOWING OUTSIDE. ✓
BIRDS CAN FLY. ✓
COKE IS BETTER THAN PEPSI. X (OPINION)
DID YOU DO YOUR HOMEWORK? X (QUESTION)
PLEASE CLOSE THE DOOR. X (REQUEST)
IN THE HOUSE X (NOT A SENTENCE)

Abusers of Logic: ADVERTISERS (MARKETERS)
POLITICIANS
LAWYERS

"1000 HEROIN ADDICTS ADMITTED TO USING MARIJUANA!"

BILL CLINTON
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COUNTEREXAMPLE