Introduction to Logical Reasoning

Workshop on Creating Valid and Invalid Arguments

Part I: Each of the following asks you to construct a deductive argument with only two premises and a conclusion, which has the characteristics specified. Be sure to put the argument in its argumentative form, and then clearly explain why each proposition is either true or false and why the argument itself is either valid or invalid. I have provided you with some facts that should make this more concrete. These arguments should be fairly straightforward.

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Nation	2009 Population Estimate (World Bank)
Bahrain (GCC)	791,473
Qatar (GCC)	1,409,423
Israel (non-GCC)	7,441,700
Syria (non-GCC)	21,092,262
Saudi Arabia (GCC)	25,391,100
Iran (non-GCC)	72,903,921

1. A valid argument with one true premise, one false premise, and a false conclusion.

2. An invalid argument with two false premises and a true conclusion.

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Part II: Each of the following asks you to construct a deductive argument with only two premises and a conclusion, which has the characteristics specified. Be sure to put the argument in its argumentative form, and then clearly explain why each proposition is either true or false and why the argument itself is either valid or invalid. The previous facts should help make this more concrete. These arguments may require a little more thought.

1. An invalid argument with two true premises and a true conclusion.

2. A valid argument with two false premises and a true conclusion.

3. A valid argument with two true premises and a false conclusion.