

1D: Analyzing Arguments

Class Prep Assignment

Due at the beginning of next class

Watch the videos for Section 1D and take notes.

Inductive Arguments

Specific examples

I see teenagers skateboarding.
My son's friends skateboard.

General conclusion

All teenagers like to skateboard.

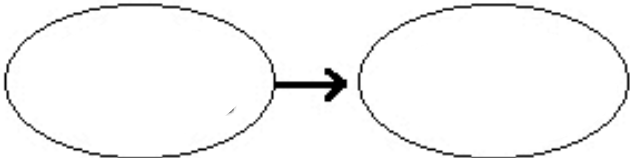
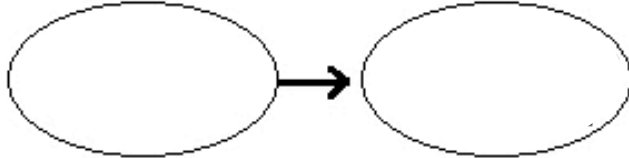
Deductive Arguments

General premises

All cars have at least two doors.
A Ford Focus is a car.

Specific conclusion

A Ford Focus has at least two doors.

INDUCTIVE ARGUMENT	DEDUCTIVE ARGUMENT
	
<p><input type="text"/> be used to prove its conclusion</p>	<p><input type="text"/> be used to prove its conclusion</p>
<p>evaluated in terms of <input type="text"/></p>	<p>evaluated in terms of <input type="text"/></p> <p style="text-align: center;">AND</p> <p>evaluated in terms of <input type="text"/></p>

Try: Determine whether each argument is inductive or deductive.

- a. If Dennis misses work and there is a party at work then Dennis will miss the party.
- b. The chair in the living room is red. The chairs in the dining room and bedroom are red. Therefore, all chairs in the house are red.
- c. It is dangerous to drive on icy streets. The streets are icy so it is dangerous to drive now.

Testing Deductive Arguments for Validity using Venn Diagrams

Example 1.

Premise: All narcotics are habit-forming.

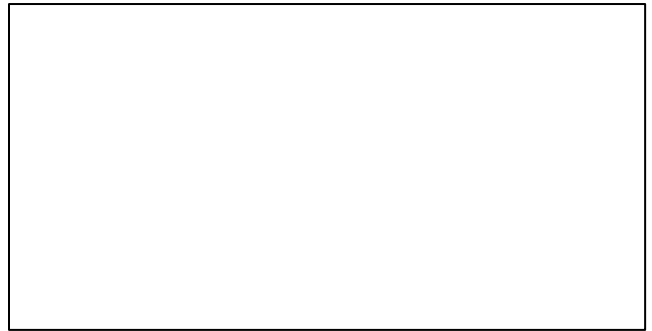
Premise: Aspirin is not habit-forming.

Conclusion: Aspirin is not a narcotic.

The conclusion is valid/invalid.

The conclusion is sound/not sound.

Venn Diagram



Example 2.

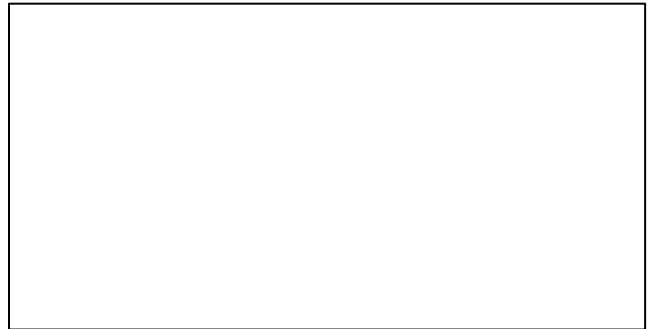
Premise: No country is an island.

Premise: Iceland is a country.

Conclusion: Iceland is not an island.

The conclusion is valid/invalid.

The conclusion is sound/not sound.



Testing a Conditional Deductive Argument for Validity using Venn Diagrams

Example 3.

Premise: If an employee is regularly late, then the employee will be fired.

Premise: Sharon was fired.

Conclusion: Sharon was regularly late.

The conclusion is valid/invalid.

The conclusion is sound/not sound.



1E: Critical Thinking in Everyday Life

Reflection: What does critical thinking mean to you? Give an example of a time where you needed to use critical thinking in your life. Please write in complete sentences.