

Primer on Thinking

- Thought / Idea
 - Concept
 - Affirmation
- Concept
 - image/idea without any claim
 - Occurs as words, phrases, non-informative sentences
- Affirmation
 - Assent / Proposition
 - Occurs as complete sentences, where one concept is predicated to another

Primer on Thinking

- Concepts / Affirmations could be either:
 - *Simple* (understood without inference)
 - *Complex* (require inference)
- Simple ideas are obviously understood and require no explanation or proof
- Complex ideas require explanation/proof utilizing simple concepts /affirmations

Ideas as Sentences

- Informative
 - Information is being conveyed
 - E.g. She is in the class
- Non-informative sentence
 - No information is being conveyed
 - Examples are requests, questions, call outs, hope, exclamation
- Informative sentences can be verified as True / False while non-informative sentences cannot.

LANGUAGE

COGNITION

LOGIC

Words / Phrases

Concepts

Terms

Sentences

Propositions

Premises

Paragraphs

Reasons

Arguments

If he falls on the stairs, he will
break his legs

His leg is broken as he fell on
the stairs

Arguments vs Explanations

- Arguments
 - *Objective is to convince / persuade*
 - *Comprises of evidence*
- Explanation
 - *Objective is to clarify something*
 - *Comprises of causes and consequences (facts)*

Everyday (conf)USE:

“The dog might be injured because he got in a fight”

“The dog might be injured because he got in a fight”

*The owner of the dog
has just watched it fight
another dog. The dog
does not seem injured*

*The owner of the dog
has not seen the dog for
a few hours. It comes to
the owner hurt and crying*

- All humans need food
- Ravi is a human
- Therefore, Ravi needs food

- *If you work hard you will pass*

- *You worked hard*

- *Therefore, you passed*

- A number is either even or odd

- This number is not even

- Therefore, this number is odd

Parts of an Argument

- All MEN are MORTAL
- SOCRATES is a MAN
- Therefore, SOCRATES is MORTAL

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Premises
(propositions)

Parts of an Argument

- All MEN are MORTAL
- SOCRATES is a MAN
- Therefore, SOCRATES is MORTAL

Terms
(*concepts*)