

Categorical Syllogisms - Complete List of 256

Mood	Figure	Rule Broken					
		2	3	4	5	6	
A A A	1	Valid					
A E A	1				5		
A I A	1		3				
A O A	1		3		5		
E A A	1				5		
E E A	1			4	5		
E I A	1		3		5		
E O A	1		3	4	5		
I A A	1	2					
I E A	1				5		
I I A	1	2	3				
I O A	1		3		5		
O A A	1	2			5		
O E A	1			4	5		
O I A	1	2	3		5		
O O A	1		3	4	5		

Mood	Figure	Rule Broken					
		2	3	4	5	6	
A A A	2	2					
A E A	2				5		
A I A	2	2	3		5		
A O A	2		3		5		
E A A	2				5		
E E A	2			4	5		
E I A	2		3		5		
E O A	2		3	4	5		
I A A	2	2					
I E A	2				5		
I I A	2	2	3				
I O A	2		3		5		
O A A	2				5		
O E A	2			4	5		
O I A	2		3		5		
O O A	2		3	4	5		

Mood	Figure	Rule Broken					
		2	3	4	5	6	
A A A	3		3				
A E A	3				5		
A I A	3		3				
A O A	3				5		
E A A	3		3		5		
E E A	3			4	5		
E I A	3		3		5		
E O A	3		3	4	5		
I A A	3		3				
I E A	3				5		
I I A	3	2	3				
I O A	3	2			5		
O A A	3		3		5		
O E A	3			4	5		
O I A	3	2	3		5		
O O A	3	2		4	5		

Mood	Figure	Rule Broken					
		2	3	4	5	6	
A A A	4						
A E A	4						
A I A	4						
A O A	4						
E A A	4						
E E A	4						
E I A	4						
E O A	4						
I A A	4						
I E A	4						
I I A	4						
I O A	4						
O A A	4						
O E A	4						
O I A	4						
O O A	4						

Mood	Figure	Rule Broken					
		2	3	4	5	6	
A A E	1		3				
A E E	1		3				
A I E	1		3				
A O E	1		3				
E A E	1	Valid					
E E E	1			4			
E I E	1		3				
E O E	1		3	4			
I A E	1	2	3				
I E E	1		3				
I I E	1	2	3				
I O E	1		3				
O A E	1	2					
O E E	1			4			
O I E	1	2	3				
O O E	1		3	4			

Mood	Figure	Rule Broken					
		2	3	4	5	6	
A A E	2	2					
A E E	2	Valid					
A I E	2	2	3				
A O E	2		3				
E A E	2	Valid					
E E E	2			4			
E I E	2		3		4		
E O E	2		3	4			
I A E	2	2	3				
I E E	2		3				
I I E	2	2	3				
I O E	2		3				
O A E	2		3				
O E E	2		3	4			
O I E	2		3				
O O E	2		3	4			

Mood	Figure	Rule Broken					
		2	3	4	5	6	
A A E	3		3				
A E E	3		3				
A I E	3		3				
A O E	3		3				
E A E	3		3				
E E E	3			4			
E I E	3		3				
E O E	3		3	4			
I A E	3		3				
I E E	3		3				
I I E	3	2	3				
I O E	3	2	3				
O A E	3		3				
O E E	3			4			
O I E	3	2	3				
O O E	3	2		4			

Mood	Figure	Rule Broken					
		2	3	4	5	6	
A A E	4						
A E E	4	Valid					
A I E	4						
A O E	4						
E A E	4						
E E E	4						
E I E	4						
E O E	4						
I A E	4						
I E E	4						
I I E	4						
I O E	4						
O A E	4						
O E E	4						
O I E	4						
O O E	4						

Mood	Figure	Rule Broken					
		2	3	4	5	6	
A A I	1					6	
A E I	1				5	6	
A I I	1	Valid					
A O I	1				5		
E A I	1				5	6	
E E I	1			4	5	6	
E I I	1				5		
E O I	1			4	5		
I A I	1	2					
I E I	1				5		
I I I	1	2					
I O I	1				5		
O A I	1	2			5		
O E I	1			4	5		
O I I	1	2			5		
O O I	1			4	5		

Mood	Figure	Rule Broken					
		2	3	4	5	6	
A A I	2	2				6	
A E I	2				5	6	
A I I	2	2					
A O I	2				5		
E A I	2				5	6	
E E I	2			4	5	6	
E I I	2				5		
E O I	2			4	5		
I A I	2	2					
I E I	2				5		
I I I	2	2					
I O I	2				5		
O A I	2				5		
O E I	2			4	5		
O I I	2				5		
O O I	2			4	5		

Mood	Figure	Rule Broken					
		2	3	4	5	6	
A A I	3					6	
A E I	3				5	6	
A I I	3	Valid					
A O I	3				5		
E A I	3				5	6	
E E I	3			4	5	6	
E I I	3				5		
E O I	3			4	5		
I A I	3	Valid					
I E I	3				5		
I I I	3	2					
I O I	3	2			5		
O A I	3				5		
O E I	3			4	5		
O I I	3	2			5		
O O I	3	2		4	5		

Mood	Figure	Rule Broken					
		2	3	4	5	6	
A A I	4						
A E I	4						
A I I	4						
A O I	4						
E A I	4						
E E I	4						
E I I	4						
E O I	4						
I A I	4	Valid					
I E I	4						
I I I	4						
I O I	4						
O A I	4						
O E I	4						
O I I	4						
O O I	4						

Mood	Figure	Rule Broken					
		2	3	4	5	6	
A A O	1		3			6	
A E O	1		3			6	
A I O	1		3				
A O O	1		3				
E A O	1					6	
E E O	1			4		6	
E I O	1	Valid					
E O O	1			4			
I A O	1	2	3				
I E O	1		3				
I I O	1	2	3				
I O O	1		3				
O A O	1	2					
O E O	1			4			
O I O	1	2					
O O O	1			4			

Mood	Figure	Rule Broken					
		2	3	4	5	6	
A A O	2	2				6	
A E O	2					6	
A I O	2	2					
A O O	2	Valid					
E A O	2					6	
E E O	2			4		6	
E I O	2	Valid					
E O O	2			4			
I A O	2	2	3				
I E O	2		3				
I I O	2	2	3				
I O O	2		3				
O A O	2		3				
O E O	2		3	4			
O I O	2		3				
O O O	2		3	4			

Mood	Figure	Rule Broken					
		2	3	4	5	6	
A A O	3		3			6	
A E O	3		3			6	
A I O	3		3				
A O O	3		3				
E A O	3					6	
E E O	3			4		6	
E I O	3	Valid					
E O O	3			4			
I A O	3		3				
I E O	3		3				
I I O	3	2	3				
I O O	3	2	3				
O A O	3	Valid					
O E O	3			4			
O I O	3	2					
O O O	3	2		4			

Mood	Figure	Rule Broken					
		2	3	4	5	6	
A A O	4						
A E O	4						
A I O	4						
A O O	4						
E A O	4						
E E O	4						
E I O	4	Valid					
E O O	4						
I A O	4						
I E O	4						
I I O	4						
I O O	4						
O A O	4						
O E O	4						
O I O	4						
O							

The 4 Propositions

A All P are M.	contraries	contradictories
E No P are M.		
I Some P are M.	sub-contraries	
O Some P are not M.		

The 64 Moods

AAA	EAA	IAA	OAA
AAE	2 EAE	IAE	OAE
AAI	EAI	2 IAI	OAI
AAO	EAO	IAO	OAO
AEA	EEA	IEA	OEA
2 AEE	EEE	IEE	OEE
AEI	E EI	IEI	O EI
AEO	EEO	IEO	OEO
AIA	EIA	IIA	OIA
AIE	EIE	II E	OIE
2 AI I	EII	III	OII
AIO	4 EIO	IIO	OIO
AOA	EOA	IOA	OOA
AOE	EOE	IOE	O OE
AOI	EOI	IOI	O OI
AOO	EOO	IOO	O OO

The Four Figures

1 Major Premiss: M - P Minor Premiss: S - M Conclusion: ΔS - P	2 P - M S - M ΔS - P	3 M - P M - S ΔS - P	4 P = major term P - M M = midterm M - S S = minor term ΔS - P Conclusion
--	--------------------------------------	--------------------------------------	--

Major term = predicate of the conclusion
Minor term = subject of the conclusion

The 15 Valid Categorical Syllogisms

Figure 1	Figure 2	Figure 3	Figure 4
AAA-1 All M are P. All S are M. ΔAll S are P.			
EAE-1 No M are P. All S are M. ΔNo S are P.	AEE-2 All P are M. No S are M. ΔNo S are P. EAE-2 No P are M. All S are M. ΔNo S are P.		AEE-4 All P are M. No M are S. No S are P.
All-1 All M are P. Some S are M. ΔSome S are P.		All-3 All M are P. Some M are S. ΔSome S are P. IAI-3 Some M are P. All M are S. ΔSome S are P.	IAI-4 Some P are M. Some M are S. ΔSome S are P.
EIO-1 No M are P. Some S are M. ΔSome S are not P.	AOO-2 All P are M. Some S are not M. ΔSome S are not P. EIO-2 No P are M. Some S are M. ΔSome S are not P.	EIO-3 No M are P. Some M are S. ΔSome S are not P. OAO-3 Some M are not P. All M are S. ΔSome S are not P.	EIO-4 No P are M. Some M are S. ΔSome S are not P.

Major premiss
Minor premiss
Conclusion

The Six Rules for Validity

- 1 Equivocation Fallacy
Exactly three terms, used in the same sense
- 2 Fallacy of Undistributed Middle
Middle term must be distributed in at least one premiss.
- 3 Illicit Major, Minor
No term can be distributed in the conclusion, which is not distributed in the premisses.
- 4 Fallacy of Exclusive Premisses
Two negative premisses
- 5 Affirmative conclusion from negative premiss
Either premiss negative, conclusion must be negative.
- 6 Existential Fallacy
No particular conclusion from two universal premisses