

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					
E A A	1	5					
E E A	1	4					
E I A	1	3					
E O A	1	3					
I A A	1	2					
I E A	1	5					
I I A	1	2					
I O A	1	3					
O A A	1	2					
O E A	1	4					
O I A	1	2					
O O A	1	3					

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

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					
E E A	3	4					
E I A	3	3					
E O A	3	4					
I A A	3	3					
I E A	3	5					
I I A	3	2					
I O A	3	2					
O A A	3	3					
O E A	3	4					
O I A	3	2					
O O A	3	2					

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					
I A E	1	2					
I E E	1	3					
I I E	1	2					
I O E	1	3					
O A E	1	2					
O E E	1	4					
O I E	1	2					
O O E	1	3					

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

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	4					
I A E	3	3					
I E E	3	3					
I I E	3	2					
I O E	3	2					
O A E	3	3					
O E E	3	4					
O I E	3	2					
O O E	3	2					

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					
A I I	1	Valid					
A O I	1	5					
E A I	1	5					
E E I	1	4					
E I I	1	5					
E O I	1	4					
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					
O E I	1	4					
O I I	1	2					
O O I	1	4					

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

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

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					
A E O	1	3					
A I O	1	3					
A O O	1	3					
E A O	1	6					
E E O	1	4					
E I O	1	Valid					
E O O	1	4					
I A O	1	2					
I E O	1	3					
I I O	1	2					
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					
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					
E I O	2	Valid					
E O O	2	4					
I A O	2	2					
I E O	2	3					
I I O	2	2					
I O O	2	3					
O A O	2	3					
O E O	2	3					
O I O	2	3					
O O O	2	3					

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

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 O O	4						

P S C

**The 4 Propositions**

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

**The 64 Moods**

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

**The Four Figures**

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