## Cheatography

### **Reasoning and Argumentation Cheat Sheet** by salthom via cheatography.com/23852/cs/5351/

Quiz 2	Quiz 2 (cont)	Rules	Quiz 2 - Tr	ue, False, Unknown
1. The major premise of any categorical syllogism is the premise that contains the predicate of the conclusion	10. Whenever a conclusion is drawn from a single premise, without reference to evidence from any other source, we call this argument Immediate inference	Step 1: Change the claim to either its contrary if universal or subcontrary if particular Step 2: Leave the subject alone Step 3. Compliment the predicate	<ul> <li>(cont)</li> <li>5. Only voters are patriots (No non-voters are patriots)</li> <li>True</li> <li>6. Only patriots are voters (No non-</li> </ul>	
<ul> <li>2. The is the term occurring in a syllogism that appears in both the oremesis of a categorical syllogism but not in the conclusion</li> <li>Middle term</li> <li>3. A term is said to be when reference is made to only a portion of the class of objects</li> <li>Undistributed</li> </ul>	<ul> <li>11. A term is said to be a</li> <li>when reference is about the entire class of objects</li> <li>Distributed</li> <li>12. An unreliable inference or error in reasoning is called a</li> <li>Fallacy</li> <li>Multiple Choice</li> </ul>	Quiz 2 - Convert if possible1. All envious people are difficult to work withCan't convert (it is an A form)2. No exams are pleasant experiencesNo pleasant experiences are exams	patriots are         Unknown         7. Some pa         True         Quiz 2 - Re         categorica         1. Nearly e         immunized	e voters) n atriots are voters estate in standard al form very student must be
<ul> <li>4. Two propositions are</li> <li>when they can both be true, but both cannot be false</li> <li>Sub-contrary</li> <li>5. A statement about a relationship of oithor inclusion or statement.</li> </ul>	Homework         1. A few lazy students do not prepare for class. Steve prepares for class. We can conclude that Steve is not a lazy student         Answer:         Some lazy students are not class preparers O         All Steve (d) are class preparer (u)         A         Steve is not a Lazy student> No         Steve (d) are class preparer (u)         Invalid:Illicit Distribution         A. Fallacy of four terms         B. Undistributed middle term         C. Faulty exclusion         D. Illicit distribution	Quiz 2 - Obvert1. No terrorists are patrioticAmericansAll terrorists are non-patrioticAmericans	Some students are people who must be immunized 2. Only freshmen can enroll today. No non-freshmen are students allowed to enroll today	
exclusion, partial or total, between two groups of objects or events is called Categorical 6. A(n) proposition declares		<ul> <li>2. Any term distributed in the conclusion of a categorical syllogism must be distributed in the premises</li> <li>No terms distributed in the conclusion of a categorical syllogism are terms that must be non-distributed in the premises</li> <li>Quiz 2 - True, False, Unknown</li> </ul>	Definitions A E I	Distributes the subject Distributes both Distributes neither
<ul> <li>that the relationship between two classes is one of partial inclusion</li> <li>I form</li> <li>7. A(n) proposition declares that the relationship between two classes is one of total exclusion</li> </ul>			Middle Term	predicate occurs in the premises, distributed once, cannot be in the conclusion
E Form 8. A(n) proposition declares that the relationship between two classes is one of partial exclusion	E. Syllogism	TRUE <i>All patriots are voters</i> .  1. No patriots are non-voters <b>True</b> 2. All non-voters are non-patriots	Major t Premises o Contradic o tion o	opposite truth value - if one's true, the other is false
9. The propositions in an argument that support the conclusion are called the Premises		True 3. All voters are patriots Unknown 4. Some patriots are not voters Epice	Contrary	Both can't be true, however both can be false



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Definitions	(cont)	Quiz 2 - Consider	the	Quiz 2 - Consider the	Notes (cont)	
Sub-	Both can be true at	argument (cont)		argument (cont)	E and O = Negative quality	
Contrary	the same time, however both can't be false at the same time	Determine if the arguments are valid or invalid. Which reason describes the reason the syllogism is invalid. A: Fallacy of four terms B: Undistributed middle term C: Faulty exclusion D: Illicit distribution E:	1. Every politician provides his services and experiences freely. No criminal gives freely his experience and services. Therefore no politician	3. The categorical proposition Only truly dedicated men enter the priesthood. Is translated to <b>Answer:</b> No non-truly	Square of Opposition	
Subimplic ation	The truth of the universal proposition guarantees the truth of the particular			dedicated men are men who enter the priesthood Notes	indication	
Superimp lication	The falsity of the particular claim guarantees the falsity of the universal			(A Form). All () [distributed] are () [undistributed]: inclusive quality; universal quantity (I Form): Some () [undistributed] are ()	I (Subcontrariety)	
Syllogism Deductive argumer in which a conclusion is drawn from 2 pieces of	Syllogism satisfies all four terms	[undistributed]: inclusive; partical				
	from 2 pieces of		Answer: VE	(E Form): No () [distributed] are ()	Quiz 2	
evidence (premises) Arguments with missing propositions are called Enthymemes Quiz 2 - Consider the argument		2. This building was certified prior to the fire because it	[distributed]: exclusive; universal	1. In the O-form proposition the subject is undistributed		
			(O Form): Some () [undistributed] are not () [distributed]: exclusive; partial	True		
				<ol> <li>No valid argument can have a false conclusion if the premises are true</li> </ol>		
			because it	Inclusive: A, I	True	
Since all	Answer	1	was	Exclusive: E, O	<ol> <li>Conversion is a valid operation for all four</li> </ol>	
politicians a	re The		inspected	Universal: A, E	types of categorical propositions	
careful plan	ners conclusion		certified	Partial: I, O	False	
and it is also a fact of the that nearly all bank argument	buildings have been	Only is universal and exclusive = E Form	<ol> <li>In a valid categorical syllogism, the middle term must be distributed twice</li> </ol>			
robbers are	also is a -		inspected	A Few = I form		
only stands	stands to bank		Answer: IB	Few = O form	raise	
reason that some robbers bank robbers are are	some robbers rs are are	IB		If there are no non's you can leave it alone	5. A valid categorical syllogism must have exactly three terms, each used exactly twice to refer the same class	
politicians	politicians			Only use conversion on E and I forms	True	
				A and I = Affirmative quality	6. In a valid categorical syllogism, every	

6. In a valid categorical syllogism, every term distributed in the premises must be distributed in the conclusion

False



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#### Quiz 2 (cont)

7. When two categorical propositions differ in only their degree of generality, the truth of the more general proposition logically implies the less general

#### True

8. A strong inductive argument is an argument in which the premises of the argument establish a relatively high degree of probability that the conclusion is true

#### True

9. If a conversion is valid, no term in the converse can be distributed unless it was distributed in the original proposition

#### True

10. All sound deductive arguments have a true conclusion

#### True

11. Any categorical proposition is logically equivalent to its converse

#### False

12. A syllogism is a deductive argument with two premises and one conclusion

#### True

13. It is a flaw in the argument's structure or form that causes the argument to be invalid

#### True

14. All four forms of standard categorical propositions may be simply converted

#### False

15. All valid arguments must have a true conclusion

#### False



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# 16. No invalid argument can have a true conclusion

Quiz 2 (cont)

#### False

17. If there are two exclusive premises in a syllogism, then the conclusion must be affirmative

#### False\*

18. The truth of the premises guarantee the validity of the argument

#### False

19. If the premises are true and the argument is valid then the conclusion must be true

#### True

20. All four standard forms of the categorical proposition have a logical equivalent

#### True

21. A sound deductive argument must be both valid and have true premises

True