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When that knowledge is lost, then there the conclusion, which demands existing members, is false because there are no weavers. Note that the particular affirmative I proposition converts. To avoid confusing oneself, the use of factually true premises is useful when examining a syllogism. The third categorical proposition is in the form _____ S is (__) P. S M wood rocks X Then combine the two preceding Venn diagrams into a single Venn diagram. III-1 Major premise: Some M is P Minor premise: Some S is M Conclusion: Some S is P [Minor pre] Some rocks are in the water [Major pre] Some coral are rocks [Therefore] Some coral are in the water. When there are elements at k, then the conclusion that No S is P is false. This is not easy or obvious to either the beginner nor sometimes the more experienced Venn diagrammer. With four figures possible for each of 64 moods there are 256 total possible arrangements of mood and figure. Optional border Push margins of circles fully into view Indent slightly from left edge Circles are 50 base units in radius Subject circle [generally completely painted over] Predicate circle [generally completely painted over] Middle term circle [lower section exposed] left top crescent S center football S P intersection right top crescent P top center triangle center triangle lower left triangle lower right triangle Twiddle dee | Twiddle dum | Fee fi fo fum Subject Predicate Middle term Compound document comments • Geometry • Lee Ling • COMFSM top center triangle center triangle lower left triangle S P M X The interchange of the subject and predicate is called conversion. The above syllogism is term an EAO syllogism. Look at the Venn diagram and consider whether the diagram supports the conclusion that All S is P. The flying brick refers to the possible positions of the middle term without regard to quantity. Thus the part of M outside of P can be "erased" or marked out. In simplified terms, the issue is what happens when no one knows how to make the gulfoy. This failure means that EEE-1 is invalid. OOO-1 Major premise: Some M is not P Minor premise: Some S is not M Conclusion: Some S is not P [Minor pre] Some rocks are not in the water [Major pre] Some wood are no rocks [Therefore] Some wood are not in the water. Note that if No S is P then No P is S. One appears to be valid, the other appears to be invalid. top center triangle center triangle lower left triangle S P M Note that the areas of M blacked out by the major premise remain blacked out. How Amaya accomplishes this while FireFox 1.5.0.9 fails to do so is a puzzle as of 07 January 2007. When analyzing a syllogism, always remember that the premises are taken to be true, whether or not they are factually true. All S is indeed P. E: No rocks are hard things O: Some rocks are hard things O: Some rocks are not hard things [Not every rock is a hard thing] Syllogisms consist of three of these, any three. P M Diagramming the minor proposition No S is M top center triangle center triangle lower left triangle lower right triangle S P M j k For the first example involving bats (M), cats (S), and rats (P) the area where the k is located above is empty: there are no rats that are cats. A: All rocks are hard things. Note that where a predicate is an adjective or adjective phrase, this course uses the approach of attaching the implicit [things] to convert the proposition. The only area of S that remains is the center triangle of the three circles. The syllogism at first appeared to be valid, but a second example shows that EEE-1 is not valid for all possible S, P, and M. Think about where the X should go if there was no predicate P circle. If some rocks are in the water, then it is also the case that some in the water [things] are rocks. Diagramming the major premise To diagram this syllogism start by laying out the major premise All Micronesians are Pacific Islanders or All M is P. A categorical proposition is termed "valid" if the premises are sufficient support to prove the conclusion true. Figure Categorical syllogism have four possible figures depending on the position of the middle term. Although for the purposes of this discussion the English language common sense presumption of existential import is being retained, in modern logic there is the possibility that S and P lack existential import and thus both j and k could be empty. Note the middle term is the predicate of the major premise and the subject of the minor term. P M X The minor premise, Some S is M is diagrammed below. Diagramming the major premise for EEE-1 There are no fish (M) that are birds (P). Mood There are four types of categorical proposition, the universal affirmative A, the universal negative E, the particular affirmative I, and the particular negative O. The major premise, Some M is P is diagrammed below. This conversion for E means that all possible positions of S, P, and M reach the same result for EEE. In all four figures the syllogism is invalid. The X being on the line signifies that the "some" things could be on either side of the line. This could be abstracted in the following notation. This sounds reasonable. The result is that either j or k might be empty of elements. Under Construction top center triangle center triangle lower left triangle S P M X X X X X X X X X Optional border Push margins of circles fully into view Indent slightly from left edge Circles are 50 base units in radius Subject circle [generally completely painted over] Predicate circle [generally completely painted over] Middle term circle [lower section exposed] left top crescent S center football S P intersection right top crescent P top center triangle center triangle lower left triangle lower right triangle Twiddle dee | Twiddle dum | Fee fi fo fum Subject Predicate Middle term The following is a reproduction at twice the scale of the above. The X on the line at the bottom of the triangle, could be either in the wood circle or outside the wood circle in the rocks circle. Thinking of all the possible examples is difficult, this is where Venn diagrams help. Consider the following EAO syllogism E: No women named Sepe are outer island Yapese women A: All outer island Yapese women are weavers of the gulfoy O: Some weavers of the gulfoy are not women named Sepe. This results in a section of S also being blacked out - the lower left "triangle" where S and M intersect outside of the P circle. Major premise: No M is P Minor premise: No S is M Conclusion: No S is P [Minor pre] No bats are cats [Major pre] No rats are bats [Therefore] No rats are cats This sounds reasonable. In the above example the middle term M, the term in common to the major and minor premise, is Micronesians. The subject S is Kosraens. Categorical syllogisms are sets of three categorical propositions. M-P P-M M-P P-M \ / S-M S-M M-S M-S S-P S-P S-P S-P First Second Third Fourth Figure Figure Figure Figure Venn diagrams AAA-1 Mood is AAA, figure I. For the second example involving fish (M), birds (S), and golden plovers (P), golden plovers are birds, so there are elements at k. P M Diagramming the minor premise The third circle added is the subject circle S. top center triangle center triangle lower left triangle S P M wood in the water rocks X X For some wood to not be in the water there would have to be an X in the lower left triangle at the intersection of wood and rocks. In modern logic there are problems of existential import and the empty class to be considered. Some wood are not rocks means placing the X outside of the rocks circle but inside of the wood circle. That we cannot decide between the two possibilities will mean that that syllogism is considered invalid. In the diagram below the S circle has been temporarily laid "on top" to show the full circle. In one arrangement the result appears to be a valid syllogism, in the other arrangement the result is an invalid syllogism. The first categorical proposition is called the major premise and introduces P and a term that will be called M, the middle term. Imagine only the S and M circles being present. Golden plovers are birds is the true statement. In modern logic, the particular proposition imply the existence of actual members of the class, while the universal propositions do not imply the existence of members of the class. There are three categorical propositions in each syllogism and four types or 43 = 64 possible combinations (moods). On the right below the diagram has been altered with additional information. Yet consider the III-1 syllogism: Some people who wear blue jeans are men Some women are people who wear blue jeans [Therefore] Some women are men. For no particular reason these examples first consider triplets of identical types of categorical propositions in figure 1. OOO-1 is not valid. Diagram the major premise P M in the water rocks X Diagram the minor premise. The "flying brick" is a good way to remember the four figures. The following is a picture of the flying brick. The third categorical proposition is the conclusion. In the diagram on the left below, coral is a rock in the water, hence the "X" is placed in the intersection of all three circles. In the above syllogism the subject S is weavers of the gulfoy, the predicate P is women named Sepe and the middle term M is outer island Yapese women. The second categorical proposition is called the minor premise and includes S and M. The predicate P is Pacific Islanders. The premises are always presumed to be true. The order in which the three occur specifies the mood of the syllogism. These first two categorical propositions are called premises. top center triangle center triangle lower left triangle lower right triangle S P M X X X Note that the X's are placed on the line. Note that Amaya 9.52 for windows does support these transforms. This will later be given as a general and broader rule that includes the particular negative O: no syllogism with two negative premises is valid. Flying brick middle term in categorical syllogism M M M M M M M M Seen more abstractly: M M M M \ / M M M M Now with the predicate and subject terms introduced. The first two are given and presumed to be true. Thus whether III-1 is valid or invalid will also hold for III-2, III-3, and III-4. This removes the possibility of "some" elements in the common intersection, thus the minor and major premise have to marked in the lower left intersection of S and M but not P, and in the lower right intersection of P and M but not S. That is, if some S is P, then it is also true that some P is S. That is, the universal negative categorical proposition is valid when the subject and predicate are interchanged. top center triangle center triangle lower left triangle lower right triangle coral in the water rocks X top center triangle center triangle lower left triangle lower right triangle Some women are men blue jeans X X When diagramming I and O propositions, the X's are placed on the appropriate line to remind us that the X could be on either side of the line. This is intentional. EEE-1 Note that the three categorical syllogisms can be a mixture from any of the four types. The additional proposition is the reality that No women are men. P M Since all M is P, there is no M that is not P. If placing the X on one of the sides leaves the conclusion unsupported, then the syllogism is invalid. III-2 Some in the water [things] are rocks Some coral are rocks [Therefore] Some coral are in the water The other two figures are left to the reader. Be very careful. This proved useful in determining that the version of Amaya for Fedora Core 5 in late December 2006 was not supporting scale and rotate transforms, only translate transformations. Amaya on Fedora Core 5 supports MathML despite the apparent lack of the Mathematica fonts. top center triangle center triangle lower left triangle S P M "All S is M" is diagrammed by "erasing" or blacking out all areas of S that are not inside the M circle. Major premise: All M is P Minor premise: All S is M Conclusion: All S is P All Micronesians are Pacific Islanders All Kosraens are Micronesians All Kosraens are Pacific Islanders When reading a syllogism, think of the statements this way: Given that "All Micronesians are Pacific Islanders" is true and Given that "All Kosraens are Micronesians" is true, Therefore "All Kosraens are Pacific Islanders" is true. A Venn diagram helps sort out the cause of this contradiction visually. This means the whole EEE-1 categorical syllogism is considered invalid. Yet consider the EEE-1 syllogism; [Minor pre] No fish are birds [Major pre] No golden plovers are fish [Therefore] No golden plovers are birds Both premises are factually true, yet the conclusion is not true. Only the universal negative E and the particular affirmative I convert. And this triangle is wholly inside of P. Major premise: No P is M Minor premise: All M is S Conclusion: Some S is not P As long as there are women named Sepe, outer island women, and gulfoy weavers, the above syllogism is indeed valid. In the abstract where Some M is not P and Some S is not M, there is no way to assure validity.

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