

## Chapter 1 : Syllogism - Examples and Definition of Syllogism

*Syllogism deals with as well as uses all three types of reasoning- deductive reasoning, inductive reasoning and abduction. Deductive refers to something that must be, inductive means something which is actually operative and abduction is that something may be.*

Syllogism is a form of deductive reasoning where you arrive at a specific conclusion by examining two other premises or ideas. Syllogism derives from the Greek word syllogismos, meaning conclusion or inference. Some syllogisms contain three components: All roses are flowers major premise. This is a rose minor premise. Therefore, I am holding a flower conclusion. Types of Syllogism The type of syllogism that typically contains these three components is categorical syllogism. However, there are two other major kinds of syllogism. Categorical Syllogism As we know, our first example about roses was a categorical syllogism. All cars have wheels. I drive a car. Therefore, my car has wheels. My car has wheels. All insects frighten me. That is an insect. Therefore, I am frightened. Conditional Syllogism Conditional syllogisms follow an "If A is true, then B is true" pattern of logic. If Katie is smart, then her parents must be smart. If Richard likes Germany, then he must drive an Audi. He must like all things German, including their cars. This cake is either red velvet or chocolate. This cake is red velvet. These are often used in persuasive speeches and arguments. I know his character. In an enthymeme, one premise remains implied. In the examples above, being familiar with someone or something implies an understanding of them. Syllogistic Fallacy Some syllogisms contain false presumptions. All crows are black. The bird in my cage is black. Therefore, this bird is a crow. This bird is a crow. The scenery in Ireland is beautiful. Therefore, the scenery must be beautiful. The scenery is beautiful. Of course, not every black bird is a crow and not all of Ireland is beautiful. Rules of Syllogism There are six known rules of syllogism. However, they mainly apply to categorical syllogism, since that is the only category that requires three components: There must be three terms: The minor premise must be distributed in at least one other premise. Any terms distributed in the conclusion must be distributed in the relevant premise. Do not use two negative premises. If one of the two premises are negative, the conclusion must be negative. From two universal premises, no conclusion may be drawn. Further Examples of Syllogism Literature Syllogisms make for colorful literary devices. They explain situations indirectly, affording readers the opportunity to practice reasoning and deduction skills. Shakespeare was a master of many things, including syllogism. Here is an example of a syllogism fallacy in *The Merchant of Venice*: Portia was a woman desired by many men. It was arranged she would marry the man who could correctly guess which of three caskets contained her portrait. One casket was inscribed with, "Who chooseth me shall gain what many men desire. His assumption falls under the category of syllogistic fallacy. Men also desire fortune and power, for example. Philosophy Socrates set up one of the most famous, and easily understand, examples of syllogism in philosophy. He clearly followed the rule of three components. All men are mortal. Socrates is a man. Therefore, I am mortal. This draws a clear picture of how one statement, when known to be universally true, should point perfectly to another clear claim, thus drawing an accurate conclusion. Modern Culture Keep syllogisms in mind when viewing advertisements. Many leaps are made in advertising, skipping either a major or minor premise: Women love men who drive Lincoln MKZs. Get ready for an enthymeme or syllogism fallacy. A blanket statement such as this skips one of the two required premises. Persuasive Speeches and Writing Understanding syllogisms will help you create masterful persuasive speeches and essays. They create a formula for you to abide by, in order to ensure your main point is flawless. Syllogisms also allow you to test your theories according to syllogistic fallacies. Just keep your eyes and ears open while you allow syllogisms to drive your point home with clarity and truth. YourDictionary definition and usage example.

Chapter 2 : Syllogism - Wikipedia

*Syllogism may also be used to form incorrect conclusions that are odd. For instance, "All crows are black, and the bird in my cage is black. So, the bird in my cage is a crow." This is a false argument, as it implies a conclusion that "all blackbirds are crows," which is incorrect. It is known as "syllogism fallacy." Another example of syllogism fallacy is "Some televisions are black and white, and all penguins are black and white.*

Thus, if we take into account the quality of the premisses only, leaving out the account of the conclusion, we have 16 possible moods in each figure, and 64 possible moods in all the four figures. In this sense, each of the 64 combinations mentioned above may have four forms. For example, the combination of AA in the First figure may have forms, thus: Thirdly, mood is defined in a highly restricted sense to mean only valid moods—combinations which yield valid conclusions. There are only 19 valid moods in all the four figures, if we take into account the premisses only: In other words, the EA and EI yield valid conclusions in all the figures. If, however, we take into account all the three constituent propositions, there are 24 valid moods, thus: Valid Moods of the First Figure: In the first figure, the middle term is the subject in the major premiss, and the predicate in the minor premisses. All M is P All men are mortal A. All S is M All kings are men A. All S is R All kings are mortal Here, both the premisses are affirmative, therefore, the conclusion, if any, must be affirmative. The middle term is distributed in the major premiss. By drawing an A proposition in the conclusion, we do not violate any of the rules of syllogism, because, the minor term which is distributed in the conclusion is also distributed in the minor premiss. Hence, AA gives A as its conclusion, in the first figure. All M is P. No conclusion follows, because the conclusion, if any must be negative, and as such, the major term P which is not distributed in the major premiss, will be distributed in the conclusion. Hence AE is not a valid mood in the first figure. All men are rational I. Some S is M. Some animals are men. Some S is P. Here, as both the premisses are affirmative, and one premiss is particular, the conclusion must, must be a particular affirmative, i. The middle term is distributed in the major premiss, and no term is distributed in the conclusion. Here, AI gives I as its conclusion in the first figure. Some S is not M. From this combination no conclusion follows in the first figure. As one premiss is negative the conclusion, is any, should also be negative, distributing its predicate, the major term. But the major term is not distributed in the major premiss. Hence AO is not a valid mood in the first figure. All S is M. Here, one of the propositions being negative the conclusion must be negative. If we draw an E proposition in the conclusion we do not violate any of the rules of syllogism, because the middle term is distributed in the major premiss, and the major and minor terms which are distributed in the conclusion are also distributed in their respective premisses. Thus AE yields E as its conclusion in the first figure. No quadrupeds are men I. Some animals are quadrupeds O. Some S is not P. Some animals are not men One premiss being negative, and another being particular the conclusion, if any, must be a particular negative, i. In drawing on O proposition in the conclusion we do not violate any of the rules of syllogism, because the middle term is distributed in the major premiss, and the major term, which is distributed in the conclusion, is also distributed in the major premiss. Thus, EI gives O as its conclusion, in the first figure.. All S is M No conclusion follows, because, the middle term is not distributed in either of the premisses. Thus IA is not a valid mood in the first figure. Some M is not P A. All S is M No conclusion follows, because the middle term is not distributed even once in the premisses. Thus OA is not a valid mood in the first figure. Thus in the first figure, only four combinations yield valid conclusions, viz. The special rules of the first figure are the following: The major premiss must be universal. The minor premiss must be affirmative. Valid Moods of the Second Figure In the second figure, the middle term is the predicate in both premisses. Thus, AA does not yield any valid conclusion in the second figure. All P is M All metals are elements E. No compounds are elements E. No compounds are metals One premiss being negative, the conclusion must- be negative. If we draw an E proposition in the conclusion, no syllogistic rule is violated, because the middle term is distributed in the minor-premiss, and the major and the minor terms, which are distributed in the conclusion, are also distributed in the respective premisses. Thus AE gives E as its conclusion in the second figure. Some S is M No conclusion follows, because the middle term is undistributed

in both premisses. Hence AI does not yield any valid conclusion in the second figure. All P is M. All horses are quadrupeds O. Some S is Some animals are not not M. Some S is Some animals are not P. In drawing an O proposition as the conclusion, we do not violate any of the rules of syllogism because the middle term is distributed in the minor premiss, and the major term which is distributed in the conclusion is also distributed in the major premiss. Hence OA gives O as its conclusion in the second figure. No perfect beings are mortal A. All S is M All men are mortal E. No men are perfect beings The conclusion must be negative, because one premiss is negative. In drawing an E proposition in the conclusion, we do not violate any of the rules of syllogism, because the middle term is distributed in the major premiss, and the major and the minor terms which are distributed in the conclusion are also distributed in the respective premisses. Thus EA gives E as its conclusion in the second figure. No men are perfect. Some beings are perfect O. Some beings are not men One premiss is negative, and the other premiss is particular. Therefore, the conclusion, if any, must be O. In drawing an O proposition, as the conclusion, we do not violate any of the rules of syllogism, because the middle term is distributed in the major premiss, and the major term, which is distributed in the conclusion, is also distributed in the major premiss. Therefore, EI gives O in the second figure. All S is M This middle term being undistributed in both the premisses no conclusion follows. All S is M The conclusion, if any, must be particular and negative, because one premiss is particular and negative. The negative conclusion will distribute its predicate, the major term, which however, is not distributed in the major premiss. Hence no conclusion follows from OA in the second figure. Thus, in the second figure, only four combinations yield valid conclusions, viz. The special rules of the second figure are the following: One of the premisses must be negative. In the third figure, the middle term is the subject in both the premisses. All men are rational A. All M is S. All men are mortal I. Some mortals are rational Both premisses being affirmative, the conclusion must be affirmative. If we draw an A proposition in the conclusion, we shall have to distribute the minor term therein, though it is undistributed in the minor premiss. Hence an A proposition cannot be the conclusion in this case. But if we draw an I proposition, no rule of syllogism is violated, because, the middle term is distributed in both the premisses, and there is no improper distribution of terms in the conclusion. Thus AA gives I as its conclusion in the third figure. No M is S No conclusion follows, because, the conclusion, if any, must be negative, one premiss being negative. The negative conclusion would distribute its predicate, the major term, which, however, is not distributed in the major premiss. All diseases are painful I. Some M is S. Some diseases are preventible I. Some preventible things are painful One premiss being particular, and both premisses being affirmative, the conclusion, if any, must be I. In drawing an I proposition, no rule is violated, because the middle term is distributed in the major premiss, and there is no improper distribution of terms in the conclusion. Thus All gives I as its conclusion in the third figure.

Chapter 3 : Syllogism: It's Definition, Types, Mood (with Six Formal Fallacies Rules) | Philosophy

A syllogism (Greek: *σύνλογισμος*, *sylogismos*, "conclusion, inference") is a kind of logical argument that applies deductive reasoning to arrive at a conclusion based on two or more propositions that are asserted or assumed to be true.

Definition A syllogism is a systematic representation of a single logical inference. It has three parts: The parts are defined this way: The most famous syllogism in philosophy is this: As long as both premises are true, the conclusion must be true as well. That first syllogism was pretty easy, since no one would ever argue with its premises. But syllogisms become more difficult when the premises are more complicated or debatable. Some people might disagree with the premises, or with the conclusion. However, the logical validity of the syllogism is not a matter of opinion, because the conclusion really does follow from the premises. That is, if the premises are true, then the conclusion must be true as well. That makes it a logically valid syllogism regardless of whether or not you agree with the premises or the conclusion! You can also have cases where a syllogism is logically sound, but factually incorrect. This car is expensive minor premise All expensive cars are Ferraris. If the major premise were true, then the conclusion would follow, which means the syllogism is perfectly logical. The Importance of Syllogisms Syllogisms represent the strongest form of logical argument, so if you could build an argument entirely out of syllogisms it would probably be very persuasive! Like triangles in architecture, the syllogism is the strongest logical structure. When formed correctly, they are indisputable in terms of their logical validity. Thus, you have to ensure that the starting point of your argument is solid, or no amount of syllogisms will make the argument successful as a whole. How to Write a Syllogism Start with the conclusion. So you can easily start with the conclusion. Although most have live young, some mammals lay eggs. Break the conclusion down into subject and predicate. The grammar of your conclusion will dictate the logical structure of the syllogism you use to support it. So you have to be able to recognize subject and predicate in the sentence. Although most have live young, some mammals subject lay eggs predicate Locate the key terms. Take the subject and predicate, and boil them down to their key terms. Get rid of unnecessary adjectives and other extraneous words, and just focus on the word or words that carry the weight of the sentence. Remember that the major premise will contain the key terms of the predicate, while the minor premise contains the key terms of the subject. Craft separate sentences around these key terms such that they fit together into a syllogism. Echidnas are mammals minor premise Echidnas lay eggs major premise Check whether the conclusion follows from the premises. If not, the syllogism is not logically structured and will not work in your argument. If echidnas are mammals AND echidnas lay eggs, then of course it follows that some mammals must lay eggs. Check whether the premises are persuasive. If you think the reader will accept both premises, and the syllogism is logically sound, then this step in your argument will be beyond criticism. Echidnas are mammals persuasive because of scientific consensus Echidnas lay eggs persuasive because of empirical observation V. When to Use a Syllogism Syllogisms are very abstract representations, and you rarely see them outside of formal logic and analytic philosophy. However, it can still be very useful as a mental exercise! If not, then there may be more work for you to do before the argument is ready for submission. One man alone can dig a whole in one minute. Therefore, 60 men can dig a whole in one second. Each step in this syllogism seems to make sense, and the syllogism itself is logically sound. But the conclusion is clearly wrong! But he also used another example to demonstrate how a valid syllogism could produce a false conclusion if based on faulty premises despite the syllogism itself being logically valid. Clearly, premise 2 is wrong, and the conclusion is wrong as well. But if premise 2 were correct, then the conclusion would be correct as well. That means the syllogism is logically valid though factually incorrect VIII. Examples in Popular Culture It can be fun to locate and critique the hidden syllogisms in the world around us. For example, many liquor ads are based on the following syllogism: Women like men who buy [this brand of alcohol]. You are a man and you want women to like you. Therefore, you should buy [this brand]. There are many potential problems with this argument, but the most obvious one is that it probably has at least one false premise: In addition, the viewer may well be a woman or a gay man, in which case the other premise is also false. I call

Bill a dog. Things are whatever I call them. The syllogism is clearly faulty because premise 2 is false. Quiz  
Which of the following is not one of the parts of a syllogism?

## Chapter 4 : Syllogism Examples

*A syllogism is a kind of logical argument that applies deductive reasoning to arrive at a conclusion based on two or more propositions that are asserted or assumed to be true. if you want to learn or want to solve questions on syllogisms then you.*

History of logic In antiquity, two rival theories of the syllogism existed: Aristotelian syllogistic and Stoic syllogistic. This article is concerned only with this traditional use. The syllogism was at the core of traditional deductive reasoning , where facts are determined by combining existing statements, in contrast to inductive reasoning where facts are determined by repeated observations. Within academic contexts, the syllogism was superseded by first-order predicate logic following the work of Gottlob Frege , in particular his Begriffsschrift Concept Script , but syllogisms remain useful in some circumstances, and for general-audience introductions to logic.

Term logic The use of syllogisms as a tool for understanding can be dated back to the logical reasoning discussions of Aristotle. The onset of a New Logic, or " logica nova ", arose alongside the reappearance of Prior Analytics , the work in which Aristotle develops his theory of the syllogism. Prior Analytics, upon re-discovery, was instantly regarded by logicians as "a closed and complete body of doctrine", leaving very little for thinkers of the day to debate and re-organize. This theory of the syllogism would not enter the context of the more comprehensive logic of consequence until logic began to be reworked in general in the mid-fourteenth century by the likes of John Buridan. His original assertions on this specific component of the theory were left up to a considerable amount of conversation, resulting in a wide array of solutions put forth by commentators of the day. The system for modal syllogisms laid forth by Aristotle would ultimately be deemed unfit for practical use, and would be replaced by new distinctions and new theories altogether.

Boethius[ edit ] Boethius c. While his Latin translation of Prior Analytics went primarily unused before the twelfth century, his textbooks on the categorical syllogism were central to expanding the syllogistic discussion. His perspective on syllogisms can be found in other works as well, such as Logica Ingredientibus.

John Buridan[ edit ] John Buridan c. Treatise on Consequence and Summulae de Dialectica, in which he discussed the concept of the syllogism, its components and distinctions, and ways to use the tool to expand its logical capability. Syllogism itself is about how to get valid conclusion from assumptions axioms and not about verifying the assumptions. However, people over time focused on the logic part and forgot the importance of verifying the assumptions. In the 17th century, Francis Bacon emphasized that experimental verification of the assumptions must be carried out rigorously and cannot take syllogism itself as the best way to draw conclusions in nature. In the 19th century, modifications to syllogism were incorporated to deal with disjunctive "A or B" and conditional "if A then B" statements. Kant famously claimed, in Logic , that logic was the one completed science, and that Aristotelian logic more or less included everything about logic there was to know. This introduced a calculus, a method of representing categorical statements and statements that are not provided for in syllogism as well by the use of quantifiers and variables. The work of Bolzano had been largely overlooked until the late 20th century, among other reasons, due to the intellectual environment at the time in Bohemia , which was then part of the Austrian empire. This led to the rapid development of sentential logic and first-order predicate logic , subsuming syllogistic reasoning, which was, therefore, after years, suddenly considered obsolete by many. One notable exception, to this modern relegation, is the continued application of Aristotelian logic by officials of the Congregation for the Doctrine of the Faith , and the Apostolic Tribunal of the Roman Rota , which still requires that any arguments crafted by Advocates be presented in syllogistic format. A categorical syllogism consists of three parts: Major premise Minor premise Conclusion Each part is a categorical proposition , and each categorical proposition contains two categorical terms. More modern logicians allow some variation. Each of the premises has one term in common with the conclusion: All humans are mortal. All Greeks are humans. All Greeks are mortal. Each of the three distinct terms represents a category. In the above example, humans, mortal, and Greeks. Mortal is the major term, Greeks the minor term. The premises also have one term in common with each other, which is known as the middle term; in this example, humans. Both of the premises are universal, as is the conclusion. All men are

mortals. Here, the major term is die, the minor term is men, and the middle term is mortals. Again, both premises are universal, hence so is the conclusion. A sorites is a form of argument in which a series of incomplete syllogisms is so arranged that the predicate of each premise forms the subject of the next until the subject of the first is joined with the predicate of the last in the conclusion. For example, one might argue that all lions are big cats, all big cats are predators, and all predators are carnivores. To conclude that therefore all lions are carnivores is to construct a sorites argument. This section needs additional citations for verification. Please help improve this article by adding citations to reliable sources. Unsourced material may be challenged and removed. April Relationships between the four types of propositions in the square of opposition Black areas are empty,.

## Chapter 5 : Deductive reasoning - Wikipedia

*Examples of Syllogism By YourDictionary Syllogism is a form of deductive reasoning where you arrive at a specific conclusion by examining two other premises or ideas. Syllogism derives from the Greek word syllogismos, meaning conclusion or inference.*

Sentences Sentence examples Syllogism Sentence Examples When Aristotle called syllogism  $\lambda\gamma\gamma\acute{o}\varsigma$ , he meant that it is a combination of premises involving a conclusion of necessity. Nevertheless, deduction or syllogism is not independent of the other processes of inference. The Posterior Analytics, on demonstrative syllogism, or science; 5. Secondly, he made no division of logic. In the Categories he distinguished names and propositions for the sake of the classification of names; in the De Interpretatione he distinguished nouns and verbs from sentences with a view to the enunciative sentence: In this way the Presocratics and Sophists, and still more Socrates and Plato, threw out hints on sense and reason, on inferential processes and scientific methods which may be called anticipations of logic. But Aristotle was the first to conceive of reasoning itself as a definite subject of a special science, which he called analytics or analytic science, specially designed to analyse syllogism and especially demonstrative syllogism, or science, and to be in fact a science of sciences. The Prior Analytics, on syllogism; 4. The Topics, on dialectical syllogism; or argument; 6. The Sophistical Elenchi, on sophistical or contentious syllogism, or sophistical fallacies. The main problem which Aristotle set before him was the analysis of syllogism, which he defined as " reasoning in which certain things having been posited something different from them of necessity follows by their being those things " Prior Analytics, i. But he thought that inferences other than syllogism are imperfect; that analogical inference is rhetorical induction; and that induction, through the necessary preliminary of syllogism and the sole process of ascent from sense, memory and experience to the principles of science, is itself neither reasoning nor science. To be perfect he thought that all inference must be reduced to syllogism of the first figure, which he regarded as the specially scientific inference. Accordingly, the syllogism appeared to him to be the rational process  $\omega\tau\omicron\varsigma\ \lambda\gamma\gamma\acute{o}\varsigma$ , and the demonstrative syllogism from inductively discovered principles to be science  $\epsilon\upsilon\lambda\omicron\gamma\omicron\upsilon\sigma$ . In distinguishing inner and outer reason, or reasoning and discourse, he added that it is not to outer reason but to inner reason in the soul that demonstration and syllogism are directed Post. In the Analytics he took the final step of originating the logical analysis of the proposition as premise into subject and predicate as terms mediated by the copula, and analysed the syllogism into these elements. But he laid too much stress on reasoning as syllogism or deduction, and on deductive science; and he laid too much stress on the linguistic analysis of rational discourse into proposition and terms. These two defects remain ingrained in technical logic to this day. Bacon, like Aristotle, was anticipated in this or that point; but, as Aristotle was the first to construct a system of deduction in the syllogism and its three figures, so Bacon was the first to construct a system of induction in three ministrations, in which the requisites of induction, hitherto recognized only in sporadic hints, were combined for the first time in one logic of induction. But the same passage relegates conceptions and their combinations to the De Anima, and confines the De Interpretatione to names and propositions in conformity with the linguistic analysis which pervades the logical treatises of Aristotle, who neither brought his psychological distinction between conceptions and their combinations into his logic, nor advanced the combinations of conceptions as a definition of judgment  $\kappa\alpha\tau\alpha\ \lambda\omicron\gamma\omicron\upsilon\sigma$ , nor employed the mental distinction between conceptions and judgments as an analysis of inference, or reasoning, or syllogism: The science of inference again rightly emphasizes the formal thinking of the syllogism in which the combination of premises involves the conclusion. Moreover, the study of analogical and inductive inference is necessary to that of the syllogism itself, because they discover the premises of syllogism. The formal thinking of syllogism alone is merely necessary consequence; but when its premises are necessary principles, its conclusions are not only necessary consequents but also necessary truths. Hence the manner in which induction aided by identification discovers necessary principles must be studied by the logician in order to decide when the syllogism can really arrive at necessary conclusions. But as yet he had only glimpses of a logical method which should invigorate the syllogism by the co-operation of ancient geometry and modern algebra. Whately defined it as "a

conditional syllogism with two or more antecedents in the major and a disjunctive minor. On demonstration, or demonstrative or scientific syllogism Aristotle also he might add the appendix to the Sophistical Elenchi, long after he had written that book, and perhaps, to judge from its being a general claim to have discovered the syllogism, when the founder of logic had more or less realized that he had written a number of connected treatises on reasoning. In analysing the syllogism, he first says that a premiss is an affirmative or negative sentence, and then that a term is that into which a premiss is dissolved, i. Because the crossing of terms in a syllogism requires it. In the syllogism "Every man is mortal and Socrates is a man," if in the minor premiss the copula "is" were not disengaged from the predicate "man," there would not be one middle term "man" in the two premisses. It is not necessary in every proposition, but it is necessary in the arrangement of a syllogism, to extricate the terms of its propositions from the copula; e. We cannot write a history of the varied origin of logic, beyond putting the rudimentary logic of the proposition in the De Interpretatione before the less rudimentary theory of categories as significant names capable of becoming predicates in the Categories, and before the maturer analysis of the syllogism in the Analytics. As he says at the end of the Sophistical Elenchi on the syllogism, he had no predecessor, but took pains and laboured a long time in investigating it. He got so far as gradually to write short discourses and long treatises, which we, not he, now arrange in the order of the Categories or names; the De Interpretatione on propositions; the Analytics, Prior on syllogism, Posterior on scientific syllogism; the Topics on dialectical syllogism; the Sophistical Elenchi on eristical or sophistical syllogism; and, except that he had hardly a logic of induction, he covered the ground. Then Aristotle himself regarded rhetoric as partly science and partly dialectic, perhaps he would have said that his works on reasoning are some science and others not, and that, while the investigation of syllogism with a view to scientific syllogism in the Analytics is analytic science, the investigation of dialectical syllogism, in the Topics, with its abuse, eristical syllogism, in the Sophistical Elenchi, is dialectic. In acquiring scientific knowledge, syllogism cannot start from universals without induction, nor induction acquire universals without sense. At the same time, there are three species of syllogism, scientific, dialectical and eristical or sophistical; and in consequence there are different ways of acquiring premisses. Nor does the process of acquiring the premisses of eristical syllogism, which is fallacious either in its premisses or in its process, differ, except that, when the premisses are fallacious, the dialectical interrogations must be such as to cause this fallacy. Hence, as science and dialectic are different, so scientific induction and syllogism must be distinguished from dialectical induction and syllogism. But it is by a different process of sense, memory, experience, induction, intelligence, syllogism, that science becomes knowledge of real causes, of real effects, and especially of real essences from which follow real consequences, not beyond, but belonging to real substances. Otherwise, logical ground remains logical ground, as in any noncausal syllogism, such as the familiar one from "All men are mortal," which causes me to know that I shall die, without telling me the cause of death. Under the head of notion are considered, firstly, the subjective forms of conception, judgment and syllogism; secondly, their realization in objects as mechanically, chemically or teleologically constituted; and thirdly, the idea first of life, and next of science, as the complete interpenetration of thought and objectivity. Judgment is completed in the syllogism; the syllogistic form as the perfection of subjective thought passes into objectivity, where it first appears embodied in a mechanical system; and the teleological object, in which the members are as means and end, leads up to the idea of life, where the end is means and means end indissolubly till death. Thus in the example of syllogism given above, "border-war between Thebes and Athens" is the minor term, "evil" the major term, and "border-war" the middle term. Deduction or syllogism is superior to analogy and induction in combining premises so as to involve or contain the conclusion. The truth is that, though the premises contain the conclusion, neither premise alone contains it, and a man who knows both but does not combine them does not draw the conclusion; it is the synthesis of the two premises which at once contains the conclusion and advances our knowledge; and as syllogism consists, not indeed in the discovery, but essentially in the synthesis of two premises, it is an inference and an advance on each premise and on both taken separately. As again the synthesis contains or involves the conclusion, syllogism has the advantage of compelling assent to the consequences of the premises. Rather it began as a science of reasoning Xbyos, of syllogism vvXXoycvA6s, of deductive inference. On syllogism, with a view

to demonstration. Inference from universal to particular by Syllogism, descendendo.

### Chapter 6 : Examples of Syllogism

*Sometimes the word syllogism is used to refer generally to any argument that uses deductive reasoning. Although syllogisms can have more than three parts (and use more than two premises), it's much more common for them to have three parts (two premises and a conclusion).*

**Syllogism Definition** Syllogism is a rhetorical device that starts an argument with a reference to something general, and from this it draws a conclusion about something more specific. Let us try to understand the concept with the help of an example. It is a deductive approach to reason, and is based on deducing specific conclusions from general facts. We notice in the above example that syllogism is a three-part set of statements: Syllogism and Enthymeme Syllogism takes the form of enthymeme when it is compressed. Enthymeme combines the minor premise and the conclusion, omitting the major statement. Tommy is a dog. Syllogism Fallacy Syllogism may also be used to form incorrect conclusions that are odd. So, the bird in my cage is a crow. Therefore, some televisions are penguins. Examples of Syllogism in Literature There are numerous examples of syllogism or coming-of-age novels in English literature. Let us briefly analyze a few: It can be expanded in a three-set argument as: Therefore, I have forgotten you as well. The poet says to his bashful beloved: This coyness, Lady, were no crime. They do not have enough time to love , and cannot waste it in display of coyness. Likewise, he and his darling may separate eternally before their union in this world is established. All that is lovable is wonderful, and the mistress is wonderful. Therefore, the mistress is lovable. Function of Syllogism In logic, syllogism aims at identifying the general truths in a particular situation. It is a tool in the hands of a speaker or a writer to persuade the audience or the readers, as their belief in a general truth may tempt them to believe in a specific conclusion drawn from those truths. In literature, syllogism can contribute to add wit to the statements. Moreover, syllogism fallacy may give us an opportunity to enjoy nonsensical conclusions.

### Chapter 7 : syllogism | Definition of syllogism in English by Oxford Dictionaries

*In logic, a syllogism is a form of deductive reasoning consisting of a major premise, a minor premise, and a conclusion. Adjective: syllogistic. Also known as a categorical argument or a standard categorical syllogism. The term syllogism is from the Greek, "to infer, count, reckon" Here is an.*

Some people know Him as a friend, but others know Him only as an enemy. These are, by nature, hostile in mind toward Christ, suppressing the truth in unrighteousness Rom 1: The question I want to put before you to contemplate today is why is it that some persons see the beauty and excellence of Christ, knowing Him as a friend, while others find Jesus and his promises of grace so repulsive, remaining His enemy? What is it that makes people to differ in their response to the promises of the gospel? The purpose of this short essay is to show from Scripture a discussion Jesus had in his time on earth where he unequivocally asserts that it is grace alone that makes persons to differ in our response to the gospel; whether we believe it, or reject it. I have written about this passage before but to those who have not considered Jesus discourse to the Jews in John 6, I would encourage you to take the time to reflect on it today. We find out that, when speaking to the Jews, Jesus uses a syllogism that leaves no room for human boasting. Defined simply, a syllogism is a logical formula consisting of two premises and a conclusion which follows of necessity from them. It is a combination of two judgments infallibly necessitating a third judgment as a consequence of their mutual relation. A simple example of a syllogism is: If all humans are sinners, and all Greeks are humans, then all Greeks are sinners. You ask, what does this have to do with Jesus? He claims that those to whom, in due season, the Spirit regenerates will infallibly believe the gospel. Grace and faith, therefore, are not the same thing, and when it comes down to why some have faith and not others, Jesus emphatically comes down on the side of grace. But I said to you that you have seen me and yet do not believe. In fact this is the case with these phrases throughout Scripture. With this in mind, In the context of unbelief in John 6: Since the phrase "come to Me" is spoken of all over Scripture as a synonym of believing on him, in John 6: Only the Spirit gives life 6: But in John 6: Jesus, using a syllogism, is making sure that no one thinks that anything apart from grace is what saves them. That even the very desire for faith that we have is a gift of God. This is profoundly important because it creates the inescapable conclusion that the quickening grace of God is invincible. The flesh, not referring to our physical bodies, but to our bondage to the corruption of our sinful natures, means that the sinful nature can do nothing of any redemptive good, including believe the gospel. How do I know this is what it means? Because the entire context on both sides of this verse is Jesus speaking of the Jews unbelief. Faith, He is saying, is not a product of our unregenerate human natures. It is, rather, the Spirit alone who can give life to our dead souls that we may believe. Jesus is telling the same thing to Nicodemus in John 3, using the same type of language. Jesus never gives Nicodemus an imperative command to be born again, but instead, tells him what must happen to him for eternal life to be a reality. Belief springs from a change of nature, for the old man considers the gospel foolish and thus cannot comprehend it 1 Cor 2: It is the massive affront to our pride to believe that we have no hope save in Jesus alone. We see this at work in this passage when, at the end of John chapter six many of those who previously were with Jesus left because his teaching was too hard and only the twelve were left. Hard because the gospel of grace alone strips man of all hope that he could have to contribute something, be it ever so small, to his own salvation. Never underestimate the reality of our sinful nature deceiving you this way. The gospel forces us to see our own spiritual impotence and bankruptcy in contributing anything or even lifting a finger toward our own salvation. But those who do believe the gospel we can know with certainty that the Holy Spirit has quickened them and is doing a work of grace in them. As John says in his first epistle, trusting Christ is the immediate result of the new birth, not the cause of it: This is important because those who reject the perseverance of the saints, believing that Christ does not preserve us to the end, are in effect saying that we must somehow maintain our justification before God. To conclude, Jesus tells us that all those whom God gives to the Son will believe in the Son and no one will believe in the Son whom God does not grant to do so. I bring this passage up to you because it is one of the most forceful passages in all of Scripture relating to the invincibility of saving grace. We may resist the gospel when hearing

the outward call and even resist stirrings of the Holy Spirit, but no one resists the inward quickening and call of God Rom 8: In the Old Testament sometimes God would discipline Israel by telling them their crops would fail even though they labored to sow seed. This is proof that all that we do in this world such as planting crops requires the prior blessing of God if it is to be fruitful. Similarly Paul uses an agricultural metaphor when speaking of casting the seed of the gospel. So neither he who plants nor he who waters is anything, but only God who gives the growth. The fallow ground of our hearts must first be plowed up by God, for the soil of our heart is not good by nature, but only by grace. The seed will not find good soil until God makes it so. For Ezekiel the prophet says: I will give you a new heart and put a new spirit in you; I will remove from you your heart of stone and give you a heart of flesh. And I will put my Spirit in you and move you to follow my decrees and be careful to keep my laws. No one believes and obeys while their heart is still stone. Our blind eyes must be opened; our deaf ears unstopped and corrupt nature must be supernaturally changed by the Holy Spirit, for man to begin to have any good thoughts about Christ. Posted by John on November 2,

**Chapter 8 : Syllogism - Definition and Examples | LitCharts**

*The third and most commonly used type of syllogisms are the categorical syllogisms. The basic for this syllogism type is: if A is a part of C, then B is a part of C (A and B are members of C). An example of this syllogism type will clarify the above.*

No deduction has two negative premises No deduction has two particular premises A deduction with an affirmative conclusion must have two affirmative premises A deduction with a negative conclusion must have one negative premise. A deduction with a universal conclusion must have two universal premises He also proves the following metatheorem: All deductions can be reduced to the two universal deductions in the first figure. His proof of this is elegant. First, he shows that the two particular deductions of the first figure can be reduced, by proof through impossibility, to the universal deductions in the second figure: This proof is strikingly similar both in structure and in subject to modern proofs of the redundancy of axioms in a system. Many more metatheoretical results, some of them quite sophisticated, are proved in *Prior Analytics I*. In contrast to the syllogistic itself or, as commentators like to call it, the assertoric syllogistic, this modal syllogistic appears to be much less satisfactory and is certainly far more difficult to interpret. Aristotle gives these same equivalences in *On Interpretation*. However, in *Prior Analytics*, he makes a distinction between two notions of possibility. He then acknowledges an alternative definition of possibility according to the modern equivalence, but this plays only a secondary role in his system. Most often, then, the questions he explores have the form: A premise can have one of three modalities: Aristotle works through the combinations of these in order: Two necessary premises One necessary and one assertoric premise Two possible premises One assertoric and one possible premise One necessary and one possible premise Though he generally considers only premise combinations which syllogize in their assertoric forms, he does sometimes extend this; similarly, he sometimes considers conclusions in addition to those which would follow from purely assertoric premises. Since this is his procedure, it is convenient to describe modal syllogisms in terms of the corresponding non-modal syllogism plus a triplet of letters indicating the modalities of premises and conclusion: The conversion rules for necessary premises are exactly analogous to those for assertoric premises: Aristotle generalizes this to the case of categorical sentences as follows: This leads to a further complication. Such propositions do occur in his system, but only in exactly this way, i. Such propositions appear only as premises, never as conclusions. He does not treat this as a trivial consequence but instead offers proofs; in all but two cases, these are parallel to those offered for the assertoric case. The exceptions are Baroco and Bocardo, which he proved in the assertoric case through impossibility: A very wide range of reconstructions has been proposed: Malink, however, offers a reconstruction that reproduces everything Aristotle says, although the resulting model introduces a high degree of complexity. This subject quickly becomes too complex for summarizing in this brief article. From a modern perspective, we might think that this subject moves outside of logic to epistemology. However, readers should not be misled by the use of that word. We have scientific knowledge, according to Aristotle, when we know: The remainder of *Posterior Analytics I* is largely concerned with two tasks: Aristotle first tells us that a demonstration is a deduction in which the premises are: Aristotle clearly thinks that science is knowledge of causes and that in a demonstration, knowledge of the premises is what brings about knowledge of the conclusion. The fourth condition shows that the knower of a demonstration must be in some better epistemic condition towards them, and so modern interpreters often suppose that Aristotle has defined a kind of epistemic justification here. However, as noted above, Aristotle is defining a special variety of knowledge. Comparisons with discussions of justification in modern epistemology may therefore be misleading. In *Posterior Analytics I*. Whatever is scientifically known must be demonstrated. The premises of a demonstration must be scientifically known. They then argued that demonstration is impossible with the following dilemma: If the premises of a demonstration are scientifically known, then they must be demonstrated. The premises from which each premise are demonstrated must be scientifically known. Either this process continues forever, creating an infinite regress of premises, or it comes to a stop at some point. If it continues forever, then there are no first

premises from which the subsequent ones are demonstrated, and so nothing is demonstrated. On the other hand, if it comes to a stop at some point, then the premises at which it comes to a stop are undemonstrated and therefore not scientifically known; consequently, neither are any of the others deduced from them. Therefore, nothing can be demonstrated. Aristotle does not give us much information about how circular demonstration was supposed to work, but the most plausible interpretation would be supposing that at least for some set of fundamental principles, each principle could be deduced from the others. Some modern interpreters have compared this position to a coherence theory of knowledge. However, he thinks both the agnostics and the circular demonstrators are wrong in maintaining that scientific knowledge is only possible by demonstration from premises scientifically known: To solve this problem, Aristotle needs to do something quite specific. It will not be enough for him to establish that we can have knowledge of some propositions without demonstrating them: Moreover and obviously, it is no solution to this problem for Aristotle simply to assert that we have knowledge without demonstration of some appropriate starting points. He does indeed say that it is his position that we have such knowledge. There is wide disagreement among commentators about the interpretation of his account of how this state is reached; I will offer one possible interpretation. What he is presenting, then, is not a method of discovery but a process of becoming wise. The kind of knowledge in question turns out to be a capacity or power *dunamis* which Aristotle compares to the capacity for sense-perception: Likewise, Aristotle holds, our minds have by nature the capacity to recognize the starting points of the sciences. In the case of sensation, the capacity for perception in the sense organ is actualized by the operation on it of the perceptible object. Similarly, Aristotle holds that coming to know first premises is a matter of a potentiality in the mind being actualized by experience of its proper objects: So, although we cannot come to know the first premises without the necessary experience, just as we cannot see colors without the presence of colored objects, our minds are already so constituted as to be able to recognize the right objects, just as our eyes are already so constituted as to be able to perceive the colors that exist. It is considerably less clear what these objects are and how it is that experience actualizes the relevant potentialities in the soul. Aristotle describes a series of stages of cognition. First is what is common to all animals: Next is memory, which he regards as a retention of a sensation: Even fewer have the next capacity, the capacity to form a single experience *empeiria* from many repetitions of the same memory. Finally, many experiences repeated give rise to knowledge of a single universal *katholou*. This last capacity is present only in humans.

**Definitions** The definition *horos*, *horismos* was an important matter for Plato and for the Early Academy. External sources sometimes the satirical remarks of comedians also reflect this Academic concern with definitions. Aristotle himself traces the quest for definitions back to Socrates. What has an essence, then? In general, however, it is not individuals but rather species *eidos*: A species is defined by giving its genus *genos* and its differentia *diaphora*: As an example, human might be defined as animal the genus having the capacity to reason the differentia. However, not everything essentially predicated is a definition. Such a predicate non-essential but counterpredicating is a peculiar property or *proprium idion*. Aristotle sometimes treats genus, peculiar property, definition, and accident as including all possible predications *e*. Later commentators listed these four and the differentia as the five predicables, and as such they were of great importance to late ancient and to medieval philosophy *e*. Just what that doctrine was, and indeed just what a category is, are considerably more vexing questions. They also quickly take us outside his logic and into his metaphysics. Here are two passages containing such lists: These are ten in number: An accident, a genus, a peculiar property and a definition will always be in one of these categories. To give a rough idea, examples of substance are man, horse; of quantity: Categories 4, 1b25a€”2a4, tr. Ackrill, slightly modified These two passages give ten-item lists, identical except for their first members. Here are three ways they might be interpreted: First, the categories may be kinds of predicate: On this interpretation, the categories arise out of considering the most general types of question that can be asked about something: Thus, the categories may rule out certain kinds of question as ill-formed or confused. Second, the categories may be seen as classifications of predications, that is, kinds of relation that may hold between the predicate and the subject of a predication. For Aristotle, the relation of predicate to subject in these two sentences is quite different in this respect he differs both from Plato and from modern logicians. The categories may be interpreted as ten

different ways in which a predicate may be related to its subject. Third, the categories may be seen as kinds of entity, as highest genera or kinds of thing that are. A given thing can be classified under a series of progressively wider genera: Socrates is a human, a mammal, an animal, a living being. The categories are the highest such genera. Each falls under no other genus, and each is completely separate from the others. Which of these interpretations fits best with the two passages above? The answer appears to be different in the two cases.

### Chapter 9 : What is Syllogism? | Definition and Examples

*To understand syllogisms, you need to familiarize yourself with several terms often used when discussing formal logic. At the most basic level, a syllogism is the simplest sequence of a combination of logical premises that lead to a conclusion.*

**Syllogism What Is Syllogism?** The simplest way to explain how this works is by giving examples: All men are mortal. Socrates is a man. Plants need to carbon dioxide to live. The oak tree is a plant. The oak tree needs carbon dioxide to live. A compressed syllogism, called an enthymeme, combines the minor premise and conclusion; the major premise is implied. For instance, "Socrates is mortal because he is a man. Take a look at this example: All women like to shop. John likes to shop. John is a woman. There are types of categorical syllogism alone! Another type of syllogism that is ripe for syllogistic fallacy is the conditional syllogism: If Lucinda smokes cigarettes every day, she increases her risk of lung cancer. Lucinda has no increased risk of lung cancer. It is also a kind of wit that people have relied on for centuries to forward ridiculous conclusions while pretending to use reason. Examples of Syllogism and Syllogistic Fallacy 1. Have you forgot me, sir? Why dost ask that? All birds lay eggs. A chicken lays eggs. A chicken is a bird. The basenji, which is mute, cannot bark. A basenji is not a dog. All swans are white. A cygnet baby swan is gray. A cygnet is not a swan. A shopping list contains words. A shopping list is a book.