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Chapter 1: Figure in Syllogisms



Exercises for Day 1. Peruse the entire chapter. Then read the introductory section at the very beginning of Chapter 1. Read this section carefully and try to understand it as best you can.

| 1. | What are we discussing in this chapter? Figure in syllogisms |
|------------|---|
| | |
| 2. | Explain what the word figure means as used in this chapter. |
| | The figure of a syllogism is the disposition or location of terms in the premises. |
| 3. | How many figures are there? |
| | There are three (some would say four) figures. |
| | |
| 4. | What is disposition? |
| | Disposition means location. |
| | |
| | |
| Re | ad section titled "The First Figure." Read it carefully. |
| 5. | What is the Latin term for a syllogism in the First Figure? sub-prae |
| 6. | How do we know a syllogism is in the First Figure? |
| | The middle term is the subject of the major premise and the predicate of the minor premise. |
| | |
| 7 . | Fill in the following chart: |
| | First Figure (sub-prae) |
| | M is the <u>subject</u> (subject or predicate) in the <i>major</i> premise |
| | M is thepredicate (subject or predicate) in the <i>minor</i> premise |
| 8. | Show, using the symbols S , P , and M , how a $sub-prae$ syllogism is constructed. |
| | M is P |
| | S is M |
| | S is P |
| 9. | Construct a <i>sub-prae</i> syllogism using different terms than the ones in the text. |
| | Make sure the syllogism is constructed as in question 7. |
| | |

| What is the Latin term for prae-prae | |
|--|---|
| . How do we know a syllog | ism is in the Second Figure? |
| When the middle term | n is the predicate in both the major and minor premises. |
| | |
| 2. Fill in the following chart | : |
| Second Figure (prae-p | orae) |
| M is thepredicate | in the <i>major</i> premise |
| M is thepredicate | in the <i>minor</i> premise |
| Show, using the symbols | S, P, and M, how a prae-prae syllogism is constructed. |
| P is M | |
| S is M | |
| S is P | |
| | yllogism using different terms than the ones in the text. sm is constructed as in question 12. |
| Make sure the syllogise | sm is constructed as in question 12. |
| Make sure the syllogise ead section titled "The Thirds. What is the Latin term for sub-sub | d Figure." Read it carefully. or a syllogism in the Third Figure? |
| Make sure the syllogise ad section titled "The Thirds. What is the Latin term for sub-sub." 3. How do we know a syllogical syllow syllogical s | sm is constructed as in question 12. d Figure." Read it carefully. |
| Make sure the syllogise ad section titled "The Thirds. What is the Latin term for sub-sub." 3. How do we know a syllogical syllow syllogical s | d Figure." Read it carefully. or a syllogism in the Third Figure? ism is in the Third Figure? |
| Make sure the syllogise ad section titled "The Thirds. What is the Latin term for sub-sub." 3. How do we know a syllogical syllow syllogical s | d Figure." Read it carefully. or a syllogism in the Third Figure? ism is in the Third Figure? is the subject in both the major and minor premises. |
| Make sure the syllogise and section titled "The Thirds. What is the Latin term for sub-sub." 3. How do we know a syllogic When the middle term | d Figure." Read it carefully. or a syllogism in the Third Figure? ism is in the Third Figure? is the subject in both the major and minor premises. |
| Make sure the syllogise and section titled "The Thirds. What is the Latin term for sub-sub." 3. How do we know a syllogic When the middle term of the syllogic syllo | d Figure." Read it carefully. or a syllogism in the Third Figure? ism is in the Third Figure? is the subject in both the major and minor premises. |
| Make sure the syllogise and section titled "The Third sub-sub" What is the Latin term for sub-sub When the middle term Third Figure (sub-sub-sub-sub-sub-sub-sub-sub-sub-sub- | d Figure." Read it carefully. or a syllogism in the Third Figure? ism is in the Third Figure? is the subject in both the major and minor premises. |
| Make sure the syllogise and section titled "The Third Sub-sub" What is the Latin term for sub-sub and syllogis When the middle term to the sub-sub and the sub-sub-sub and the sub-sub-sub-sub-sub-sub-sub-sub-sub-sub- | d Figure." Read it carefully. or a syllogism in the Third Figure? ism is in the Third Figure? is the subject in both the major and minor premises. |
| Make sure the syllogise and section titled "The Third Sub-sub" What is the Latin term for sub-sub and syllogis When the middle term to the sub-sub and the sub-sub-sub and the sub-sub-sub-sub-sub-sub-sub-sub-sub-sub- | d Figure." Read it carefully. or a syllogism in the Third Figure? ism is in the Third Figure? is the subject in both the major and minor premises. |
| Make sure the syllogise and section titled "The Thirds. What is the Latin term for sub-sub. 3. How do we know a syllogical When the middle term. 4. Fill in the following charts. Third Figure (sub-sub. M is the subject. M is the subject. Show, using the symbols. | d Figure." Read it carefully. or a syllogism in the Third Figure? ism is in the Third Figure? is the subject in both the major and minor premises. |

| Exercises for Day 3. Read section titled "The Fourth Figure (Indirect First)." Read the entire section carefully. | | |
|---|--|--|
| 20. What is the Latin term for a syllogism in the Fourth Figure? _prae-sub | | |
| 21. How do we know a syllogism is in the Fourth Figure? When the middle term is predicate of the major premise and subject of the minor premise. | | |
| 22. Fill in the following chart: | | |
| Fourth Figure-Indirect First (prae-sub) | | |
| M is the <u>predicate</u> in the <i>major</i> premise | | |
| M is the <u>subject</u> in the <i>minor</i> premise | | |
| 23. Show, using the symbols S , P , and M , how a $prae-sub$ syllogism is constructed. P is M | | |
| M is S | | |
| S is P | | |
| 24. Construct a <i>prae-sub</i> syllogism using different terms than the ones in the text. Make sure it is constructed as in question 22. | | |
| | | |
| 25. Fourth Figure syllogisms are just another form of what? The First Figure | | |
| 26. What is the Fourth Figure sometimes called? | | |
| The Indirect First or Fourth | | |
| Read section titled "How to Remember the Figures." | | |
| 27. What is the Latin saying invented to help remember the figures? | | |
| Sub-prae prima, bis prae secunda, tertia sub bis. | | |

28. What does this saying mean?

Sub-prae first, prae twice second, sub twice third.

Exercises for Day 4.

29. Identify the terms, identify the position of the middle term, and determine the figure of each syllogism.

| | Rebels are Yankees | |
|------------------|---|-----------------------------------|
| - | n was a Yankee erefore, John was not a Rebel | |
| S: | John | M = prae |
| э. Р: | Rebel | M = prae |
| и: М: | Yankee | ☐ First ☑ Second ☐ Third ☐ Fourth |
| Dog | mammals nurse their young gs are mammals erefore, dogs nurse their young | |
| S: | dogs | M = sub |
| P: | their young | M = prae |
| M: | mammals | ☐ First ☐ Second ☐ Third ☐ Fourth |
| All _I | ne men are physicists physicists are brilliant erefore, some brilliant things are men brilliant things | M = _prae |
| P: | men | M = sub |
| M: | physicists | ☐ First ☐ Second ☐ Third ☑ Fourth |
| Tha | beggars can be choosers at man is a beggar erefore, that man cannot be a chooser | |
| S: | that man | M = sub |
| P: | choosers | M = prae |
| M: | beggars | ☑ First ☐ Second ☐ Third ☐ Fourth |
| Allı | men are gods men are mortal erefore, some mortals are not gods | |
| S: | mortals | M = sub |
| P: | gods | M = sub |
| M: | men | ☐ First ☐ Second ☑ Third ☐ Fourth |

30. Complete the following diagram by giving the form of each statement and showing whether each term is distributed or undistributed: [Review]

| Letter | Letter Form DISTRIBUTION | | BUTION |
|-------------|--------------------------|---------------|----------------|
| Designation | (e.g., "All S is P") | Subject-Term | Predicate-Term |
| Α | All S is P | distributed | undistributed |
| I | Some S is P | undistributed | undistributed |
| E | No S is P | distributed | distributed |
| 0 | Some S is not P | undistributed | distributed |

| | | <u> </u> |
|---------------|--|--|
| 31. In | dicate which figures the following syllogisms a | are in: |
| a. | All dogs bark Rover is a dog Therefore, Rover barks ☑ First □ Second □ Third □ Fourth | |
| b. | All stinging things should be avoided All bees sting Therefore, bees should be avoided ☑ First □ Second □ Third □ Fourth | (although it would at first appear to be Fourth, |
| c. | No horse can fly Pegasus is a horse Therefore, Pegasus cannot fly ☑ First □ Second □ Third □ Fourth | since the syllogism is not in proper logical form) |
| d. | All music is of some value Some music is classical music Therefore, some classical music is of some value ☐ First ☐ Second ☑ Third ☐ Fourth | |
| 32. Th | nink up your own syllogism for each of the four | r figures. |
| Fi | rst: | |
| | Make sure the middle term is in the appropriate location in | each premise. |
| _ | | |
| _ | | |
| Se | econd: | |
| _ | | |
| _ | | |
| | | |

| Third: | |
|--------------|---|
| Fourtl | n: |
| Read section | on titled "Summary." Read it carefully. |
| 33. Tell wh | ether the following are true or false: |
| T | We label a First Figure syllogism <i>sub-prae</i> . |
| F | The Third Figure is really just a form of the First Figure. (It is the Fourth Figure that is really just a form of the First.) |
| T | Prae-prae is short for the Latin praedicatum-praedicatum. |
| F | In a syllogism of the Second Figure, the major term is the subject in the major premise and the predicate of the minor premise. (It is the middle, not the major, term that is the subject in the major premise and the predicate in the minor premise.) |
| F | The figure of a syllogism is the disposition of terms in the conclusion. (It is the disposition of terms in the premises, not the conclusion.) |
| T | The Fourth Figure is sometimes called the Galenic figure. |