

Categorical Re-Writes

Practice Work

#1

- Some athletes are not baseball players, and some baseball players are not basketball players. Therefore, some athletes are not basketball players.

#2

- **Only that which studies science is real. Science cannot study consciousness. So consciousness is not real.**
 - **Mary Midgley – *Science and Poetry***
- Is this an argument?

#2

- **Only that which studies science is real. Science cannot study consciousness. So consciousness is not real.**
 - **Mary Midgley – *Science and Poetry***
- **Is this an argument? → Yes**
- **Now ... Let's Break it down**

#2

- **Only that which studies science is real. Science cannot study consciousness. So consciousness is not real.**
 - Mary Midgley – *Science and Poetry*
- **P1: Only that which science studies is real**
- **P2: Science cannot study consciousness**
- **C: So consciousness is not real**
- **Note: Not in proper categorical form → Must convert it**

Some Basic Important Rules:

- 1) There are only four Categorical Proposition forms (A, E, I, O)
- 2) **The word *ONLY* by itself always introduces the predicate term of an A-type claim**
 - **Example:** Only philosophy majors are eligible candidates = All eligible candidates are philosophy majors.
- 3) **The phrase *THE ONLY* always introduces the subject term of an A-type claim**
 - The only people allowed in are philosophy majors = All people allowed in are philosophy majors.
- Practice: Using both of these rules translate the following:
 - **Only matinees are half priced**
 - **Matinees are the only half-priced shows**

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- Practice: Using both of these rules translate the following:
 - **Only matinees are half priced** → **All half-priced shows are matinees**
 - **Matinees are the only half-priced shows** → **All half-priced shows are matinees**

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- 4) **The phrase When or WHENEVER tells us that a claim is about a time and a place**
 - **Practice Example:** I always get nervous when I take a Critical Thinking exam

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- 4) The phrase **When** or **WHENEVER** tells us that a claim is about a time and a place
 - Practice Example: I always get nervous when I take a Critical Thinking exam
 - → **Whenever** I take a C.T. exam I get nervous = All times that I take C.T. exams are times that I get nervous.
 - Rule: Whenever always introduces the subject term of an A-type claim about times
 - Rule: Whenever always introduces the subject term of an A type claim about places

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- 5) **Translating claims about single individuals → Remember, you need to convert Major and Minor Terms into Categorical Terms**
 - Aristotle is a logician → All people identical with Aristotle are logicians

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- 6) **What to do when you have a negative in your claim that is in the wrong position**
 - **Example:** Aristotle is not English

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- 6) **What to do when you have a negative in your claim that is in the wrong position**
 - **Example:** Aristotle is not English = No people identical with Aristotle are English → *WHY?*

Original Argument Again

- **P1: Only that which science studies is real**
 - **P2: Science cannot study consciousness**
 - **C: So consciousness is not real**
-
- Put this into Proper Categorical Form

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 - **P2: Science cannot study consciousness**
 - **C: So consciousness is not real**
-
- Put this into Proper Categorical Form
 - **P1: All subjects that are real are subjects that are studied by science.**
 - **P2: No subjects identical to consciousness are subjects studied by science.**
 - **C: No subjects identical to consciousness are subjects that are real.**

Polysyllogisms

- Polysyllogisms are chain arguments → Conclusion of one becomes a premise in another
- ***Example: Given that sensitive people are self-reflective and all highly intelligent persons are sensitive, it's clear that all highly intelligent people are self-reflective. Thus, since some classical musicians are self-reflective, I'm moved to conclude that some classical musicians are highly intelligent.***

Argument Given In Example

- **P1: Sensitive people are self-reflective**
- **P2: All highly intelligent people are sensitive**
- **P3: All highly intelligent people are self-reflective**
- **P4: Some classical musicians are self-reflective**
- **C: Therefore: Some classical musicians are highly intelligent**

- **Convert into 2 Categorical Syllogisms ...**

Categorical Version

- P1) All people who are sensitive are people who are self-reflective
 - P2) All people who are highly intelligent are people who are sensitive
 - C & P1) All people who are highly intelligent are people who are self-reflective
 - P2) Some classical musicians are people who are self-reflective
 - C) Some classical musicians are people who are highly intelligent.
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- OR (2 Categorical Arguments)
 - All people who are sensitive are people who are self-reflective
 - All people who are highly intelligent are people who are sensitive
 - All people who are highly intelligent are people who are self-reflective
 - -----
 - All people who are highly intelligent are people who are self-reflective
 - Some classical musicians are people who are self-reflective
 - Therefore, some classical musicians are people who are highly intelligent.
- ARGUMENT #1
- ARGUMENT #2

Example #2 → Homework #2 on Venn Diagrams (Due Wednesday)

- **Pornography violates a women's rights. It carries a demeaning message about a woman's worth and purpose and promotes genuine violence. This is indeed a violation of women's civil rights and justifies the Minneapolis City Council in attempting to ban pornography.**

Example #2

- Pornography violates a women's rights. It carries a demeaning message about a woman's worth and purpose and promotes genuine violence. This is indeed a violation of women's civil rights and justifies the Minneapolis City Council in attempting to ban pornography.
- P1: **All instances of pornography are things that demean women's worth and promote violence.**
- P2-Unstated: **All things that demean a woman's worth and promote violence are things that violate a woman's rights.**
- C#1: **All instances of pornography are things that violate a woman's rights.**
- -----
- P1: **All instances of pornography are things that violate women's rights.**
- P2-Unstated: **All things that violate women's rights are things that are justifiably banned by the Minneapolis City Council.**
- C#2: **All instances of pornography are things that are justifiably banned by the Minneapolis City Council.**