Introduction to Logical Reasoning

Workshop on Categorical Statements and Basic Categorical Inferences

Part I: Consider the following categorical proposition: "All professors are successful". Do the following problems.

1. What is the subject (*S*) of this statement?

2. What is the predicate (*P*) of this statement?

3. Draw the Venn diagram representing this statement, being sure to correctly label each circle involved.

4. What is the quality of this statement? Explain your answer using the above Venn diagram.

5. What is the quantity of this statement? Explain your answer using the above Venn diagram.

Part II: Consider the following categorical statement: "Some students are not journalism majors". Do the following problems.

1. What is the subject (*S*) of this statement?

2. What is the predicate (*P*) of this statement?

3. Draw the Venn diagram representing this statement, being sure to correctly label each circle involved.

4. What is the quality of this statement? Explain your answer using the above Venn diagram.

5. What is the quantity of this statement? Explain your answer using the above Venn diagram.

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Part III: Consider the following categorical statement: "No brilliant filmmakers are self-reliant". Do the following problems.

1. What is the subject (*S*) of this statement?

2. What is the predicate (*P*) of this statement?

3. Draw the Venn diagram representing this statement, being sure to correctly label each circle involved.

4. Suppose it is true that "No brilliant filmmakers are self-reliant". Using the above Venn diagram to explain which of the following categorical statements are true, false, or undetermined.

   A. "No self-reliant people are brilliant filmmakers".

   B. "All brilliant filmmakers are non-self-reliant".

   C. "No non-self-reliant people are non-brilliant filmmakers".

Part IV: Consider the following categorical statement: "Some journalists are mediocre hacks". Do the following problems.

1. What is the subject (*S*) of this statement?

2. What is the predicate (*P*) of this statement?

3. Draw the Venn diagram representing this statement, being sure to correctly label each circle involved.

4. Suppose it is true that "Some journalists are mediocre hacks". Using the above Venn diagram to explain which of the following categorical statements are true, false, or undetermined.

   A. "Some mediocre hacks are journalists".

   B. "Some journalists are not non-mediocre hacks".

   C. "Some non-mediocre hacks are non-journalists".