Introduction to Logical Reasoning

Workshop on Categorical Statements and Basic Inferences

Part I: Consider the following categorical statement:

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 statements:

A. No brilliant filmmakers are self-reliant.
B. Some brilliant filmmakers are not self-reliant.
C. Some brilliant filmmakers are self-reliant.
D. All brilliant filmmakers are self-reliant.

Do the following problems.

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

2. What is the predicate (*P*) of these statements?

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

4. Draw the Venn diagram representing statement B. If A is *true*, then is B true, false, or unknown?

5. Draw the Venn diagram representing statement C. If A is *true*, then is C true, false, or unknown?

6. Draw the Venn diagram representing statement D. If A is *false*, then is D true, false, or unknown?

Part IV: Consider the following categorical statement:

A. Some journalists are mediocre hacks.
B. No journalists are mediocre hacks.
C. Some journalists are not mediocre hacks.
D. All journals are mediocre hacks.

Do the following problems.

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

2. What is the predicate (*P*) of these statements?

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

4. Draw the Venn diagram representing statement B. If A is *true*, then is B true, false, or unknown?

5. Draw the Venn diagram representing statement C. If A is *true*, then is C true, false, or unknown?

6. Draw the Venn diagram representing statement D. If A is *false*, then is D true, false, or unknown?