

Use the argument form below for questions 1–4.

Some *A* are *B*.

Some *B* are not *C*.

Therefore, some *A* are not *C*.

1. What is the major term?
2. What is the minor term?
3. What is the middle term?
4. Draw a Venn Diagram for the premises of the argument.

**Supply the categorical statement having the given properties. Recall that there are four categorical statements: All *A* are *B*, No *A* are *B*, Some *A* are *B*, and Some *A* are not *B*.**

5. Which categorical is universal and has both terms distributed?
6. Which categorical is distributed only on the first term?
7. Which categorical is particular and positive?

**Identify the fallacy in each syllogism as affirmative conclusion, exclusive premises, existential fallacy, illicit major, illicit minor, negative conclusion, or undistributed middle.**

8. Some chihuahuas are dogs. Some dogs are not fish. Therefore, some chihuahuas are not fish.
9. No gouramis are monkeys. Some monkeys are arboreal. Therefore, no gouramis are arboreal.
10. No firemen are policemen. Some policemen are not from Chicago. Therefore, all firemen are from Chicago.
11. All students are growing. All growing things are living. Therefore, some students are living.
12. All climbers are healthy. Nothing healthy is diseased. Therefore, some climbers are diseased.
13. Some people like to shop. All who like to shop like ice cream. Therefore, all people like ice cream.
14. All U.S. citizens are registered. All registered people are voters. Therefore, some voters are not U.S. citizens.

**Classify each argument as existential or universal and as generalization or instantiation. Identify any fallacies.**

15. I saw a unicorn yesterday. Therefore, unicorns exist.
16. The current president is a sinner. Therefore, all American presidents are sinners.
17. All firemen are courageous. Joe Smith is a fireman. Therefore, Joe Smith is courageous.
18. Some dogs are annoying. Let's call the annoying dog "Rover."
19. Some religious people are heretics. Since Bill Ford is religious, he must be a heretic.

**Answer the question.**

20. Explain the significance of John 16:13 for logic.