

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Will Your Logic Hold Up? 12th Grade Foundations of Reasoning Quiz

Students identify fundamental patterns of valid inference and recognize common informal fallacies in real-world arguments to sharpen their analytical comprehension.

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**1. Identify the logical pattern: 'If the Supreme Court issues a ruling, then it becomes law. The Supreme Court issued a ruling. Therefore, it is law.'**

- A. Modus Tollens
- B. Modus Ponens
- C. Disjunctive Syllogism
- D. Hypothetical Syllogism

**2. In a deductive argument, if the premises are true and the structure is valid, the conclusion MUST be true.**

- A. True
- B. False

**3. When a debater ignores an opponent's actual position and instead attacks an exaggerated or misrepresented version of it, they are using the \_\_\_\_ fallacy.**

- A. Red Herring
- B. Slippery Slope
- C. Straw Man
- D. Circular Reasoning

**4. Which of these is an example of Inductive Reasoning?**

- A. Every 12th grader I have met likes music, so all 12th graders likely like music.
- B. Since all mammals breathe air and a whale is a mammal, a whale breathes air.
- C. If it is a square, it has four sides. This is a square, so it has four sides.
- D. To graduate, one must have 24 credits. Sam has 24 credits, so Sam can graduate.

**5. An argument that attacks the character of the speaker rather than the substance of their claim is known as an \_\_\_\_ argument.**

- A. Ad Hominem
- B. Ad Populum
- C. Appeal to Authority
- D. Hasty Generalization

**6. A 'False Dilemma' fallacy occurs when someone suggests there are only two possible options when more actually exist.**

- A. True
- B. False

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**7. Identify the conclusion of this Disjunctive Syllogism: 'Either the power grid failed or the light bulb burned out. The power grid did not fail.'**

- A. The power grid is working fine.
- B. The light bulb is still working.
- C. The light bulb burned out.
- D. The house is dark.

**8. The logical principle 'Modus Tollens' is also known as the way of \_\_\_\_.**

- A. Affirming
- B. Denying
- C. Assuming
- D. Comparing

**9. An argument is considered 'Sound' if it is valid and all of its premises are actually true.**

- A. True
- B. False

**10. Which fallacy is present here? 'Every time I wear these socks, our team wins. Therefore, these socks cause us to win.'**

- A. Post Hoc (False Cause)
- B. Bandwagon Appeal
- C. Genetic Fallacy
- D. Begging the Question