

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

## **Your Detective Handbook: Solving 7th Grade Logic Games**

Expose weak arguments and track down hidden logical patterns as you defend your own conclusions against the tricks of deceptive reasoning.

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**1. A school menu says 'Either we serve pizza or tacos today.' If the cafeteria is not serving pizza, what must be true according to logic?**

- A. They are serving burgers.
- B. They are serving tacos.
- C. The school is closed.
- D. They are serving neither pizza nor tacos.

**2. When a person claims that a new video game must be amazing simply because it is the most popular game on the app store, they are using the \_\_\_\_\_ fallacy.**

- A. Bandwagon
- B. Slippery Slope
- C. Red Herring
- D. Circular

**3. True or False: In a sound argument, the logic must be valid AND the starting facts (premises) must actually be true.**

- A. True
- B. False

**4. Which of these is the best example of 'Inductive Reasoning'?**

- A. Because all squares have four sides, this shape must have four sides.
- B. Every time I wear my blue socks, our soccer team wins; therefore, the socks cause us to win.
- C. Since it has snowed every January for ten years, it will likely snow this January.
- D. If you are a human, you need water; you are human, so you need water.

**5. An argument that 'attacks the person' making the claim rather than the claim itself is known as an \_\_\_\_\_ attack.**

- A. Appeal to Emotion
- B. Ad Hominem
- C. Empty Logic
- D. Hasty Generalization

**6. If 'All mammals have fur' and 'A whale is a mammal,' what is the logically certain conclusion?**

- A. A whale might have fur.
- B. Whales live in the ocean.
- C. A whale has fur.

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D. All fur comes from whales.

**7. True or False: A 'Hasty Generalization' is a fallacy where someone makes a broad rule based on only one or two small examples.**

- A. True
- B. False

**8. Which logical concept describes the 'If P, then Q' rule where if the first thing happens, the second must follow?**

- A. Conditional Statement
- B. Random Guessing
- C. Circular Reasoning
- D. False Analogy

**9. If you argue that 'We should allow students to use phones in class because if we don't, they will never learn to use technology and the economy will collapse,' you are using a \_\_\_\_\_ fallacy.**

- A. Red Herring
- B. Slippery Slope
- C. No True Scotsman
- D. Appeal to Authority

**10. True or False: Using 'Critical Thinking' means you should believe everything you read as long as it is written in a textbook.**

- A. True
- B. False