

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

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

## Answer Key: Detective Pikachu's Mystery Logic: 3rd Grade Thinking Quiz

Can you spot a sneaky trick in a story? Use these 10 logic challenges to practice finding clues and making smart conclusions.

**1. Imagine you see a puddle of water on the floor and a wet umbrella nearby. What is the most logical conclusion?**

**Answer:** B) Someone recently came in from the rain.

Logic involves using clues (the puddle and umbrella) to figure out the most likely cause (rain).

**2. If all mammals have fur, and a dolphin is a mammal, then a dolphin must have fur.**

**Answer:** A) True

This is a logical rule: if the first two facts are true, the conclusion must also be true.

**3. Leo says: 'You shouldn't listen to Maya's idea for the playground because she wears mismatched socks!' Leo is using a/an \_\_\_\_.**

**Answer:** B) Personal attack (Ad Hominem)

Attacking someone's clothes instead of their idea is a logical error called an ad hominem fallacy.

**4. Which of these is a 'False Dilemma' (making it seem like there are only two choices when there are more)?**

**Answer:** B) You either love broccoli or you hate all vegetables.

Many people might dislike broccoli but enjoy carrots or corn, so saying you 'hate all vegetables' is an unfair jump.

**5. Inductive reasoning is when you see a pattern (like the sun rising every day) and guess what will happen next.**

**Answer:** A) True

Inductive reasoning uses specific patterns to make a general prediction about the future.

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**6. Complete this logical pattern: All squares are shapes. This object is a square. Therefore, this object is a \_\_\_\_.**

**Answer:** C) Shape

If an object belongs to a group (squares), and that group belongs to a larger category (shapes), the object belongs to the category too.

**7. What is wrong with this logic? 'My cat has four legs. Your dog has four legs. Therefore, my cat is a dog.'**

**Answer:** C) Just because they share one trait doesn't mean they are the same thing.

Sharing one feature (four legs) isn't enough to prove two different things are identical.

**8. A 'sound argument' is one where the facts are true and the logic makes sense.**

**Answer:** A) True

For an argument to be sound, it must be both factually correct and logically structured.

**9. Comparing two similar things to understand a new one (like saying a computer brain is like a human library) is called \_\_\_\_ reasoning.**

**Answer:** A) Analogical

Analogical reasoning uses analogies (comparisons) to help explain or solve problems.

**10. If you want to evaluate someone's argument, what is the best thing to do?**

**Answer:** B) Check if their reasons (premises) support their conclusion.

Critical thinking requires checking the 'bridge' between the facts and the final idea to see if it's strong.