

Name: _____ Date: _____

Answer Key: Crack the Detective's Code: 3rd Grade Logic & Thinking Quiz

Moving beyond simple guessing, these exercises strengthen foundational deductive reasoning using relatable daily scenarios and clear patterns.

1. Mia noticed that every time the sky turns dark gray, it starts to rain. Today, the sky is dark gray. What is the most logical guess for Mia to make?

Answer: B) It will probably rain soon.

Mia is using a pattern she saw before to make a logical prediction about what will happen next.

2. If you know that all mammals have hair and a whale is a mammal, it is logical to say that a whale has hair.

Answer: A) True

This follows a logical rule: if a group has a trait, and a specific animal belongs to that group, the animal has that trait too.

3. Leo is wearing a swimsuit and carrying a towel. Where is Leo most likely going?

Answer: C) The swimming pool

We use logic to connect specific tools, like a swimsuit, to the activity they are used for.

4. Sam says, 'You should vote for me for Class President because I have the coolest shoes.' Why is this argument weak?

Answer: A) Shoes do not help someone lead a class.

Critical thinking involves checking if a reason actually supports the conclusion. Cool shoes don't relate to leadership skills.

5. Is it logical to say: 'If I ate an apple for lunch today, I must eat an apple for lunch every single day for the rest of my life'?

Answer: B) False

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Logic requires enough evidence. One single event isn't enough to prove that something will always happen.

6. If all squares are shapes, and this drawing is a square, then this drawing is a ____.

Answer: B) Shape

This is a basic logical inference. If an object belongs to a category (squares), it also belongs to the bigger group (shapes).

7. Sarah's mom says, 'You can either have an apple or a banana for your snack.' Sarah does not want an apple. What is the logical choice left for Sarah?

Answer: C) Eat the banana.

When there are only two choices and one is removed, the other choice must be the one that remains.

8. A logical person should believe everything they see in a TV commercial without asking questions.

Answer: B) False

Critical thinking means evaluating information and looking for evidence rather than believing everything immediately.

9. If the ice cream shop is only open when it is sunny, and it is currently snowing, we can logically assume the shop is ____.

Answer: B) Closed

Logic helps us determine what is NOT happening. If the condition for being open (sun) isn't met, the shop must be closed.

10. Which of these is a fact that can be proven, rather than just an opinion?

Answer: C) The Earth moves around the Sun.

Critical thinking involves distinguishing between personal feelings (opinions) and things that can be demonstrated with evidence (facts).