

Name: _____ Date: _____

Answer Key: Detective of Distraction: 5th Grade Logic & Fallacy Quiz

Expose sneaky arguments and flawed shortcuts. Use your analytical skills to separate solid facts from tricky reasoning errors in everyday life.

1. Imagine your friend says, 'If we don't buy this new video game today, we will never have fun again!' Which logical error are they making?

Answer: C) False Dilemma (Either/Or)

A False Dilemma suggests there are only two extreme options (buy the game or never have fun) while ignoring all other possibilities in between.

2. A 'Strong' inductive argument means the conclusion is 100% guaranteed to be true forever.

Answer: B) False

Inductive reasoning deals with probability, not absolute certainty. Even a strong argument based on patterns could change with new evidence.

3. Complete the logical pattern: (1) All reptiles are cold-blooded. (2) A chameleon is a reptile. (3) Therefore, a chameleon is _____.

Answer: C) cold-blooded

This is a deductive argument. If the first two statements (premises) are true, the conclusion about the chameleon being cold-blooded must be true.

4. During a debate about school lunch, Leo says, 'We should have more salad.' Maya replies, 'Leo wants us to eat nothing but grass like cows!' What fallacy did Maya use?

Answer: B) Straw Man

A Straw Man fallacy happens when someone twists an opponent's argument into something ridiculous to make it easier to attack.

5. Which of these is an example of ANALOGICAL reasoning?

Answer: A) Since this key fits the front door, it will likely fit the back door too.

Analogical reasoning compares two similar things (two doors) to draw a conclusion about one based on the other.

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6. When someone says 'Everyone in class is wearing these shoes, so you should too,' they are using the Bandwagon fallacy.

Answer: A) True

The Bandwagon fallacy claims that because something is popular, it is the right or best thing to do.

7. An argument is considered _____ if the logic is correct AND all the premises are actually true facts.

Answer: A) Sound

Soundness is the gold standard for arguments; it means the reasoning is logically 'valid' and the starting points are 100% true.

8. If you see dark clouds, hear thunder, and conclude it is about to rain, what type of reasoning are you using?

Answer: C) Inductive Reasoning

Inductive reasoning uses specific observations (clouds/thunder) to make a broad prediction about what will likely happen (rain).

9. The 'Ad Hominem' fallacy is when you focus on an opponent's character or personality instead of their actual argument.

Answer: A) True

Ad Hominem is Latin for 'to the person.' It is a distraction tactic used to avoid talking about the actual topic.

10. In logic, a _____ is a starting statement that provides evidence or reasons for a conclusion.

Answer: B) Premise

Premises are the building blocks of an argument. They provide the 'why' that leads to the final 'therefore' (the conclusion).