

Name: _____ Date: _____

Detective Kittens and the Case of the Logical Leap: 5th Grade Quiz

Students help solve a neighborhood mystery by separating evidence from guesses and spotting silly mistakes in cat-sized conversations.

1. If every cat in the neighborhood wears a bell, and Whiskers is a cat in the neighborhood, what must be true?

- A. Whiskers is the fastest cat.
- B. Whiskers wears a bell.
- C. Whiskers likes wearing the bell.
- D. Only some cats wear bells.

2. True or False: If you see three students wearing red shirts today, you can be 100% certain that every student in the school is wearing a red shirt.

- A. True
- B. False

3. Leo says, 'Either we play soccer or we sit inside and do nothing.' Since there are other choices like reading or tag, Leo is using a ____.

- A. Valid Inference
- B. False Dilemma
- C. Helpful Suggestion
- D. Deductive Fact

4. Maya tells her brother, 'You are too young to know which movie is good.' Which mistake is Maya making?

- A. She is attacking the person instead of his argument.
- B. She is using a pattern to find a secret.
- C. She is proving the movie is bad.
- D. She is comparing two similar movies.

5. True or False: To have a sound argument, your facts must be true AND your logic must make sense.

- A. True
- B. False

6. An argument is ____ if the conclusion **MUST be true because the starting facts are true.**

- A. Weak
- B. Confusing
- C. Valid
- D. Opinionated

Name: _____

Date: _____

7. Sam says, 'I saw a squirrel eat a nut. Therefore, all squirrels only eat nuts.' What is wrong with Sam's reasoning?

- A. He used too many facts.
- B. His conclusion is based on too little evidence.
- C. He is right because squirrels love nuts.
- D. He is using a bell to find the squirrel.

8. True or False: Reasoning is the process we use to draw conclusions from information we already have.

- A. True
- B. False

9. If you say 'Since the playground was wet yesterday after it rained, it will probably be wet today if it rains,' you are using ___ reasoning.

- A. Silly
- B. False
- C. Analogical
- D. Deductive

10. Which of these is the best way to check if an argument is strong?

- A. Check if the person saying it is your friend.
- B. Check if they are shouting the argument loudly.
- C. Check if the facts support the conclusion.
- D. Check if the argument is very long.