Fundamentals of Logic

Logic · Answer Key · 8 Questions

1. Which ancient Greek philosopher is widely considered the father of formal logic?

A) Aristotle
B) Socrates
C) Plato
D) Pythagoras

2. Which 19th-century mathematician created the modern system of binary logic used in computer programming?

A) Alan Turing
B) George Boole
C) Isaac Newton
D) René Descartes

3. What type of diagram uses overlapping circles to show visual relationships between logical sets?

A) Flowchart
B) Scatter plot
C) Venn diagram
D) Bar chart

4. What is a form of reasoning containing a major premise, a minor premise, and a conclusion called?

A) Paradox
B) Syllogism
C) Analogy
D) Hypothesis

5. What logical fallacy occurs when someone attacks an opponent's character instead of their argument?

A) Ad hominem
B) Straw man
C) Slippery slope
D) Circular reasoning

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6. Which type of logical reasoning guarantees a true conclusion if all premises are true?

A) Inductive reasoning
B) Deductive reasoning
C) Abductive reasoning
D) Intuitive reasoning

7. In formal logic, what is a statement that is always true in every possible situation called?

A) Contradiction
B) Fallacy
C) Tautology
D) Premise

8. In a logical argument, what term is used for a statement or proposition that supports a final conclusion?

A) Premise
B) Fallacy
C) Paradox
D) Corollary