

Name: _____ **Date:** _____

Operation Robot Brain: A 5th Grade AI Mission

Can a computer actually learn like a human student? Identify the basic patterns and tools that help machines solve everyday puzzles.

1. A smart thermostat learns that you like your room cool at 8 PM. What part of AI is it using when it remembers your habits?

- A. Vacuuming
- B. Machine Learning
- C. Deleting data
- D. Battery saving

2. When a computer mimics the way a human brain works to recognize images of cats and dogs, it is using a neural _____.

- A. Socket
- B. Battery
- C. Network
- D. Puzzle

3. Artificial Intelligence is just a fancy name for a regular calculator that only does math.

- A. True
- B. False

4. Imagine a video game character that learns to dodge your attacks every time you play. This is an example of:

- A. The game breaking
- B. A joystick error
- C. AI learning and reasoning
- D. A remote control

5. To help an AI tell the difference between a muffin and a puppy, scientists must give the computer lots of _____.

- A. Data
- B. Electricity
- C. Sugar
- D. Water

6. A weather app that predicts rain by looking at patterns from the last ten years is using a type of AI.

- A. True
- B. False

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7. Which of these is a daily task where you might interact with an AI?

- A. Reading a paper book
- B. Talking to a smart speaker like Alexa
- C. Drinking a glass of milk
- D. Tying your shoes

8. When an AI groups songs together because they all have a fast beat and many drums, it is finding a _____.

- A. Mistake
- B. Songwriter
- C. Speaker
- D. Pattern

9. AI can only be used in video games and cannot help people like doctors or pilots.

- A. True
- B. False

10. What is the primary goal of Artificial Intelligence?

- A. To make computers move like athletes
- B. To make machines think and learn like humans
- C. To replace all human teachers
- D. To turn computers into robots that eat food