

Name: _____ **Date:** _____

Neon Circuit Safari: A 4th Grade Adventure into AI

Pattern recognition, training data, and robotic logic — fundamental building blocks for understanding how modern machines recognize the world around them.

1. If you are training an AI to recognize a 'mammal,' which set of pictures would be the best training data?

- A. Photos of eagles, hawks, and owls
- B. Photos of whales, lions, and bears
- C. Photos of lizards, snakes, and turtles
- D. Photos of robots, gears, and wires

2. True or False: An AI can find patterns in a giant pile of data much faster than a human can.

- A. True
- B. False

3. A weather app that uses AI to guess if it will rain tomorrow is making a _____ based on data.

- A. Wish
- B. Mistake
- C. Prediction
- D. Secret

4. When an AI organizes a music playlist based on songs you already liked, it is using:

- A. Magic
- B. Telepathy
- C. Fortune telling
- D. Pattern recognition

5. True or False: Artificial Intelligence (AI) means a machine is actually 'alive' like a pet or a person.

- A. True
- B. False

6. Computer scientists call the 'brain' of an AI that is inspired by how our own brain cells work a _____ network.

- A. Neural
- B. Spider
- C. Solar
- D. Social

7. Which of these is an example of an AI acting in the real world?

- A. A toaster popping up bread

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- B. A clock ticking every second
- C. A vacuum cleaner that maps a room to avoid furniture
- D. A flashlight turning on

8. Before an AI can recognize your face to unlock a tablet, it must first go through a process called _____.

- A. Sleeping
- B. Training
- C. Eating
- D. Voting

9. True or False: AI can help translate a book from Spanish into English.

- A. True
- B. False

10. If an AI makes a mistake, like calling a cat a 'dog,' what do engineers usually do?

- A. Give the AI a timeout
- B. Throw the computer away
- C. Give it better data and more practice
- D. Tell the AI to try harder