Name: _____        Date: _____

# Answer Key: A Robot's Grocery Run: Kindergarten AI Adventure Quiz

Can a machine learn to spot a banana? Young learners help a robot shopper sort patterns and make smart choices in this interactive station activity.

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**1. A smart robot is helping in the kitchen. If it sees a bunch of round red things with stems, what does it 'learn' they are?**

**Answer:** B) Apples

AI learns by looking at shapes and colors to identify objects, like recognizing that red round shapes are apples.

**2. True or False: A robot can learn to tell the difference between a cat and a dog by looking at many pictures.**

**Answer:** A) True

This is called training; the more pictures an AI sees, the better it gets at identifying different animals.

**3. When a computer uses its 'brain' to try and solve a puzzle just like you do, it is using _____.**

**Answer:** C) Artificial Intelligence

Artificial Intelligence (AI) is the term for machines that are made to think or solve problems like humans.

**4. If a robot vacuum is cleaning a room and hits a chair, what should it do to 'solve the problem'?**

**Answer:** B) Turn and find a new path

AI helps machines analyze a situation and change their plan to reach a goal, like navigating around furniture.

**5. True or False: Computers are born knowing everything and never need to practice.**

**Answer:** B) False

Just like students, AI needs to 'practice' by looking at data to learn how to do things correctly.

**6. Imagine a toy box that can sort itself. To know where the blocks go, the toy box needs to recognize the _____.**

**Answer:** A) Shapes

AI uses patterns like shapes and sizes to categorize items into groups.

**7. A computer is shown 100 pictures of smiley faces and 100 pictures of frowny faces. Now it can pick out a happy face! What did the computer just do?**

**Answer:** C) It learned a pattern

Machine learning is all about finding patterns in information to make a decision.

**8. When you talk to a smart speaker and it plays your favorite song, the speaker is _____ your voice.**

**Answer:** B) Listening to

AI systems like smart speakers use sound patterns to understand and respond to human speech.

**9. True or False: An AI can help a car see stop signs so the car knows when to wait.**

**Answer:** A) True

Self-driving technology uses AI to 'see' and follow traffic rules to keep people safe.

**10. If we want a robot to learn how to find a yellow flower in a garden, what should we show it?**

**Answer:** B) Pictures of many yellow flowers

To teach an AI, we must provide examples of the specific thing we want it to recognize.