

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Answer Key: Chef Bot's Recipe Logic: A Pre-K Coding Quiz

Young learners develop computational thinking skills by predicting outcomes and repairing broken sequences in a hands-on classroom activity.

**1. Chef Bot is making a sandwich. First, he gets bread. Next, he adds jam. What is the LAST step in his sequence?**

**Answer:** B) Put another slice of bread on top

A sequence is the order of steps. To finish a sandwich, you need to put the bread on top after the filling.

**2. If Chef Bot has a 'Loop' for 'Stir the Soup,' he will do it over and over again.**

**Answer:** A) True

Loops are programming concepts that tell a computer to repeat an action multiple times.

**3. Chef Bot sees a mess. IF the floor is dirty, THEN he should \_\_\_\_\_. (Wait! What is the logic?)**

**Answer:** B) Sweep it up

Conditionals (If/Then) allow a program to make a decision based on what is happening.

**4. Chef Bot has a box labeled 'FRUIT.' Right now, there is an Apple inside. If he swaps it for a Banana, what is in the 'FRUIT' box now?**

**Answer:** C) A Banana

Variables are like boxes that hold information. When we change the information inside, the variable holds the new value.

**5. To make a 'Dance' function, Chef Bot combines: Clap, Jump, and Wiggle. What happens if we tell him to 'Dance'?**

**Answer:** B) He does all three moves

A function is a name for a group of steps. Calling the function 'Dance' triggers the whole sequence of moves.

**6. Computers are smart and can guess what you want even if you give the wrong steps.**

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**Answer:** B) False

Computers only follow the exact instructions we give them. If the instructions are wrong, the computer makes a mistake.

**7. Chef Bot is walking to the fridge. He takes 3 steps. If he 'Loops' this 2 times, how many steps does he take total?**

**Answer:** C) 6 steps

Looping 3 steps twice means  $3 + 3$ , which equals 6 steps in total.

**8. If the bell rings, the robot goes to the door. The bell just rang! The robot is \_\_\_\_.**

**Answer:** B) Going to the door

This is an application of a conditional statement. Since the 'IF' happened (bell rang), the robot must do the 'THEN' (go to door).

**9. A 'Bug' is when a computer program has a mistake in it.**

**Answer:** A) True

In programming, a 'bug' is the word used for an error or a mistake in the logic.

**10. Chef Bot needs to 'Debug' his recipe. The bread is on the floor! What should he do?**

**Answer:** B) Find the mistake and fix it

Debugging is the process of finding what went wrong in a sequence and correcting it.