

[illegible]

## **COD Technique**

*Chain-of-Draft: Draft thoughts followed by refined response*

### **Response:**

To reach the Eddy table, follow these steps: 1. Move towards the kitchen area. 2. Turn right from the hallway. 3. Follow the signs for the Eddy room. ### Original thoughts: - Go to the kitchen. - Find the Eddy table. ### Refinement: - To quickly locate the Eddy table, head towards the kitchen area and turn right at the signs indicating its direction.

## **COT\_CONSISTENCY Technique**

*Self-Consistency: Multiple reasoning paths with majority voting*

### **Majority Vote Result:**

the camera wearer moves around the room

### **All Samples:**

Sample 1: the camera wearer moves around the room

Sample 2: the camera wearer moves around the room

Sample 3: the camera wearer moves around the room

Sample 4: The Eddy table is located near the center of the room, surrounded by several chairs. To reach it, move forward from the entrance towards the back of the room, passing the New Flash or Video Designer's area on your left. Continue straight ahead until you arrive at the table.

Sample 5: the camera wearer moves towards an office desk.

## Analysis Summary

This report compares four different prompting techniques applied to the Magma-8B vision-language model. Each technique has different strengths:

- **Standard:** Fast and direct, good for simple tasks
- **CoT:** Better reasoning for complex tasks requiring step-by-step thinking
- **CoD:** Iterative refinement for improved response quality
- **CoT-Consistency:** Most robust but computationally expensive, reduces hallucinations