

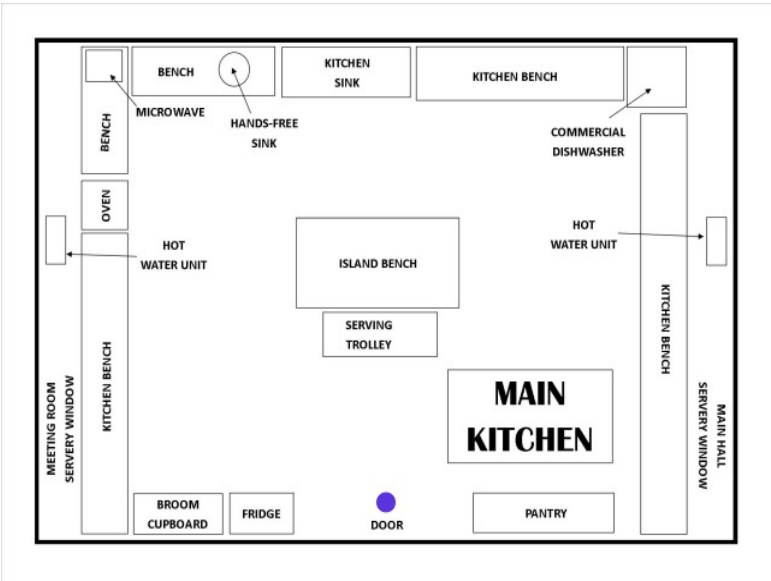
# Magma-8B Multi-Technique Analysis Report

**Generated:** 2025-06-11 08:37:50

**Model:** Microsoft Magma-8B

**Task/Prompt:** How can you go towards the commercial dishwasher?

## Input Image



## Analysis Results

### STANDARD Technique

*Direct prompting without additional reasoning steps*

**Response:**

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### COT Technique

*Chain-of-Thought: Step-by-step reasoning before final answer*

**Response:**

To reach the commercial dishwasher from the main kitchen, follow these steps: 1. Move towards the right side of the room. 2. Continue moving right until you reach the commercial dishwasher area. The commercial dishwasher is located on the right side of the room can be accessed by following these steps.

## **COD Technique**

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

### **Response:**

To reach the commercial dishwasher, follow the path from the kitchen bench, proceed through the doorway on the right side of the room, and then head straight to the commercial dishwasher located in the adjacent room.

## **COT\_CONSISTENCY Technique**

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

### **Majority Vote Result:**

You can reach the commercial dishwasher by moving straight ahead from the kitchen bench, passing the island bench on your left and the hot water unit on your right. Continue following the path until you arrive at the commercial dishwasher located near the main kitchen entrance.

### **All Samples:**

Sample 1: You can reach the commercial dishwasher by moving straight ahead from the kitchen bench, passing the island bench on your left and the hot water unit on your right. Continue following the path until you arrive at the commercial dishwasher located near the main kitchen entrance.

Sample 2: To reach the commercial dishwasher, follow the path through the kitchen area, past the main kitchen sink and refrigerator. Continue moving towards the right side of the floor plan until you reach the commercial dishwasher located near the back wall.

Sample 3: From the main kitchen, follow the path to the right until you reach the commercial dishwasher. It's on the right side of the room. The sink is located in the middle of the room, while the refrigerator is positioned on the left side. The door leads out of the room. The main window is situated on the left side of the room, providing natural light.

Sample 4: You can reach the commercial dishwasher by heading towards the right side of the floor plan, following the path indicated by the dotted line. It is situated next to the kitchen bench and hot water unit. Make sure to navigate around any obstacles or furniture in your way to avoid any accidents or delays in reaching your destination.

Sample 5: you would need to move away from the kitchen bench and head towards the main kitchen area, then continue moving forward past the broom cupboard and fridge until you reach the commercial dishwasher on your right side.

## 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