Base Instructions

(OR)-SCIE

Enhanced Instructions

Zero-Shot CoT (Kojima et al. 2022)

Let's think step by step.

Plan-and-Solve (Wang et al. 2023)

Let's first understand the problem, extract relevant variables and their corresponding numerals, and make a plan. Then, let's carry out the plan, calculate intermediate variables (pay attention to correct numerical calculation and commonsense), solve the problem step by step, and show the answer.

AgentInstruct (Crispino et al. 2024)

1.Understand the structure of the dataset: The GSM8K dataset contains grade school math word problems. Each instance in the dataset contains a string for the math question and a string for the corresponding answer. The answer includes multiple steps of reasoning and calculator annotations. \n\n2. Understand the math problems:.....So, think like a student and use your knowledge of basic arithmetic to solve the problems.

Ensure clarity and maintain a positive, engaging tone. Proceed methodically, articulating each thought step by step with clear, precise language.

Let's decompose the problem, identify the key variables, and draft a strategy. Following that, we will execute the plan, calculate necessary intermediate variables (ensuring accuracy and logic), progressively solve the problem, and present the final solution.

1. Structure of the Dataset: The GSM8K dataset comprises grade school math word problems. Each instance consists of a string for the math question and a string for the corresponding answer, with step-by-step reasoning and calculator annotations.

2. Understanding Math Problems:.....

Abide by these guidelines to tackle each problem in the GSM8K dataset effectively.