

# Filler tokens and problem repeats increase no Chain-of-Thought (CoT) math performance

## Experimental Setup

### Baseline (No CoT)

Problem: How many 8-digit integers become 1/9 as big if the first digit is removed?

LLM

Answer: 8

### Filler Tokens

Problem: How many 8-digit...

LLM

Answer: 7

Filler: 1 2 3 ... 300

### Repeats

Problem: How many 8-digit...

LLM

Answer: 7

Problem (repeat 2): ...

Problem (repeat 3): ...

█ Filler tokens (unrelated text)

█ Problem repetitions

## Opus 4.5 on Easy-Comp-Math

