Original Problem → **Key Information Extraction** → **Judgement**

Original Problem
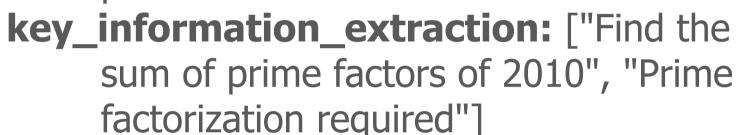
What is the sum of the prime factors of 2010?
(A) 67
(B) 75
(C) 77
(D) 201
(E) 210

Key Information Extraction

core_mathematical_concept: "Number theory - prime factorization and sum of prime factors"

key_information_extraction: ["Find the sum of prime factors of 2010", "Prime factorization required"]

problem_structure_analysis: "Direct calculation problem"

multiple_choice_removal_strategy: ["Remove all answer choices", "Ask for direct calculation of sum of prime factors"]

rephrasing_approach: ["Request the sum of prime factors directly", "No comparative aspect needed"]

problem_integrity_preservation: ["Maintain the original number (2010)", "Require prime factorization"]

answer_format_specification: ["Answer should be a single integer", "No units or decimal places required"]

Reformulated Problem

Find the sum of the prime factors of 2010. Express your answer as a single integer.

Judgement

The reformulated problem is a direct and clear request to find the sum of the prime factors of 2010. It does not provide any multiple-choice options, nor does it limit the answer choices in any way
...
The original problem and the reformulated problem are mathematically equivalent.
...
Overall, the reformulated problem is a well-posed and mathematically sound problem that requires the solver to apply mathematical concepts and techniques to find the solution.

Verification ✅