

LINEAR PROGRAMMING



George Dantzig

(November 8, 1914 – May 13, 2005)

“the final test of
a theory is its capacity
to solve the problems
which originated it”

George B. Dantzig

After running late to a class, George Dantzig copied down two problems he thought were homework and solved them. The two problems were in fact two famous unsolved problems in statistics, which later earned him his doctorate.

Fact Check > College

The Unsolvable Math Problem

A student mistook examples of unsolved math problems for a homework assignment and solved them.

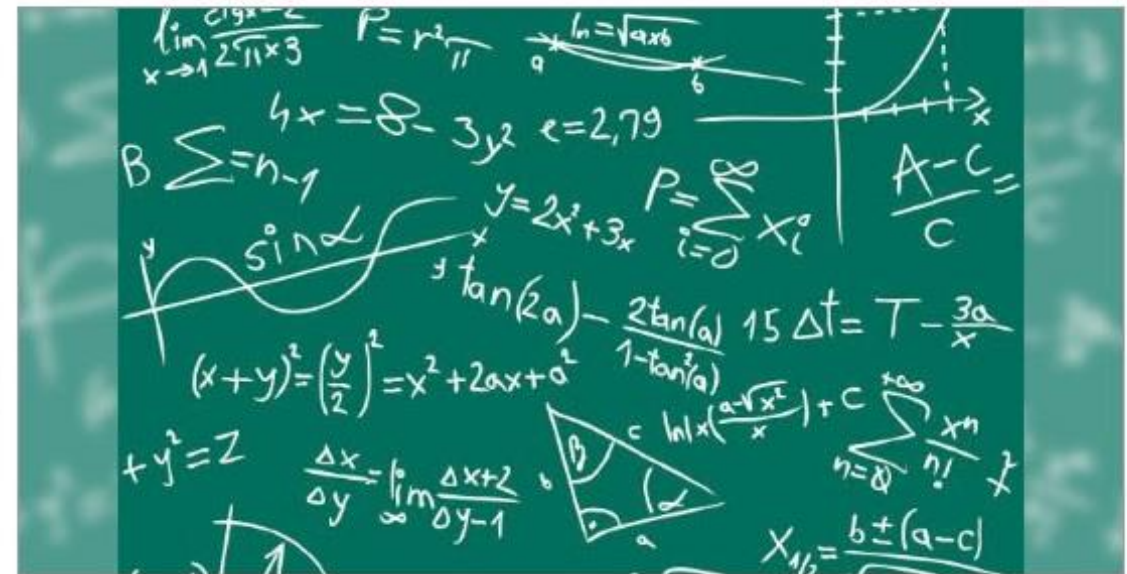


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59.9K



CLAIM: A student mistook examples of unsolved statistics problems for a homework assignment and solved them.



TRUE

LINEAR PROGRAMMING MODELING EXAMPLES

To begin modeling an LP problem:

1. What are **controllable** inputs?
2. What are the **uncontrollable** inputs?
3. What is **goal** of the decision maker?
4. What are the **requirements** and limitations?
5. What are the acceptable and unacceptable **assumptions**?

Classic LP Examples

- Employee scheduling problem
- Feed mix problem (blending)
- Multi-period production planning
- Cutting stock problem
- Transportation and Assignment