

BRIDGE POW

For this problem, provide the following:

I. PROBLEM STATEMENT

Write a concise statement of the problem. Write clearly enough so that someone picking up your paper could understand exactly what you were asked to do.

II. PLAN

Tell what you did to prepare to solve the problem. How did the problem seem to you when you first read it? Consider what you are asked to find, what you know, what you need to know, and what strategies you can use. Is this problem like any others you've done? Before you begin to work on the problem, make a guess at the answer to the problem.

III. WORK

Explain in detail what you did to solve the problem. Use charts and graphs where appropriate. Tell what worked, what didn't work, and what you did when you got stuck. Did you get help from anyone? What kind of help?

IV. ANSWER

State your answer(s) to the problem. Does the answer make sense? Could there be other correct answers? Compare your final answer with your original guess. What did you learn from this problem that could help you solve other problems?

RUN BOBO! RUN!

Bobo was walking across a bridge one day. He knew that a train was due to come across that bridge soon, but he thought he could make it. It was a nice sunny day, and there was a great view from the bridge, so Bobo walked very slowly, enjoying the view and savoring the warmth of the spring day.

He was $\frac{2}{3}$ of the way across the bridge, when the sound of a train whistle brought him instantly back to reality. A huge locomotive pulling tons of boxcars was coming directly at him at 45 miles per hour! Using all of his powers of mathematical thought and analysis, Bobo immediately figured that he could run directly ahead and get to the far edge of the bridge at the exact same instant as the train. But he also knew that he could run back in the direction from which he had come and get to *that* end of the bridge at the exact same instant the train overtook him.

How fast does Bobo run?