

BICYCLE 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?

ORVILLE AND WILBUR'S BICYCLE SHOP

Two brothers, Orville and Wilbur, own a not-so-successful shop that sells bicycles and tricycles. One of the reasons their shop is struggling is that Orville and Wilbur can never agree on how many bicycles and tricycles are actually in the shop. So one day Orville and Wilbur enlist the help of their friend Kitty to do an inventory.

Kitty suggests that they each count one type of thing in the shop. Orville, Wilbur, and Kitty spend all day counting, but at the end of the day they are dismayed. Orville has counted 50 pedals, Wilbur has counted 25 seats, and Kitty has counted 55 wheels. They still don't know how many bicycles and tricycles there are!

Please help Orville and Wilbur figure out how many bicycles and tricycles they have.