

POW #1

WELCOME

Five people: Alan, Elena, Steven, Geoffrey and Annette, meet and everybody shakes hands with everybody else. How many handshakes are there?



POW GUIDELINES

Number and label the 4 parts of your write-up.

1. *Complete heading*

2. **Problem Statement.**

In your own words, tell what you are asked to do—include the essential details and the question.

3. **Process.**

Show all your work. Refer to the problem to give reasons for each step. Write enough (several paragraphs) to show that you really tried to solve the problem.

4. **Solution.**

Write your answer in a sentence which refers to the problem. Explain why your answer makes sense. Show a check if you can.

5. **Evaluation.**

Write complete sentences to answer these questions:

- How do you feel about this POW? Why?
- Did anyone help your?
- Does this remind you of any other problem?
- Tell one thing you learned.
- What rubric score should you get? Why?

EXTENSIONS. (Extensions are optional) If the POW is easy for you, try the extensions. Write a paragraph for each—the extensions do not require 4-part write-ups.

FIRST EXTENSION: If Judy and Paul came into the room and shook everybody's hand, how many more handshakes would there be?

SECOND EXTENSION: There are several methods to solve these problems. What is the easiest and fastest approach? If the problem had involved 100 people instead of 5 or 7 people, could you solve it? Explain.