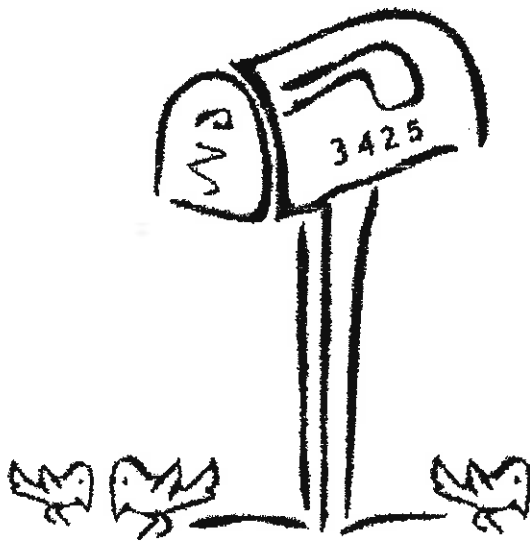


POW #6

ADDRESSES

How many four-digit addresses are possible using the digits 2, 3, 4, and 5? Each digit can be used only once in a number.



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 you?
- 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: How many four-digit addresses are possible using the digits 2, 3, 4, and 5, the digits can be repeated in the number? (3344, 2222, 5333 and 4422 are all OK)

SECOND EXTENSION: How many four-digit addresses are possible? You can use all 10 digits, but 0 cannot be a leading digit. The digits can be repeated.