

POW #14

HOW MANY 2'S?

Maria made a list of all the whole numbers from 1 to 499.

How many times did she write the digit 2?

There are fourteen
2's in this list from 1
to 36

1	13	25
2	14	26
3	15	27
4	16	28
5	17	29
6	18	30
7	19	31
8	20	32
9	21	33
10	22	34
11	23	35
12	24	36

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 2's are there in a list from 1 to 1,000?

SECOND EXTENSION: How many 2's are there in a list from 1 to 10,000?