

POW #12

CHANGE FOR A DOLLAR

How many ways can you make change for a dollar using ^{only} quarters, dimes and nickels?

Note: You cannot use pennies.



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: Can you find 40 ways to make change for a dollar using \$.50, \$.25, \$.10 and \$.05? You cannot use pennies.

SECOND EXTENSION: Try to figure out a way to make change for a dollar that uses exactly 50 coins. You can use any coins.