

POW #2

OUTFITS

Buddy is going to get dressed. He has 4 different shirts, 2 pairs of pants and 2 different pairs of athletic shoes. List all possible combinations. Identify each of the items in your list by name, color or brand. How many different outfits can he make?



A new outfit is a shirt, a pair of pants and a pair of shoes. If he changes his shoes, it is a different outfit.

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: If Buddy buys 2 hats, how many outfits does he have now? If he changes his hat, it is a different outfit. (The other details are the same: 4 shirts, 2 pants and 2 shoes.)

SECOND EXTENSION: Make up your own combination problem and solve it.