Name _____

Problem Solving: Draw a Picture and Write an Equation

Read the question and follow the steps to solve.
Bryan has 24 bottles of water. He and his friends have
8 backpacks. If he puts the same number of bottles into
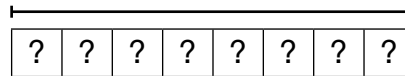each backpack, how many bottles will be in each?

Step 1: Read/Understand

- Find the information the problem gives you. [There are 24 bottles of water and 8 backpacks.]

- Find the information the problem wants you to figure out. [The number of bottles in each backpack]

Step 2: Plan and Solve

- Draw a picture to help you visualize the problem.

24 in all

?	?	?	?	?	?	?	?

- Figure out which operation you need to use. [Division]

- Write an equation. [24 ÷ 8 = ?] Solve. [? = 3 bottles]

Step 3: Check

- Check your answer by using the inverse operation. [I used division to solve the problem, so I need to use multiplication to check my answer. If 8 divides into 24 three times, then 8 × 3 should equal 24. 8 × 3 = 24. The answer checks.]

1. **Strategy Practice** Joeli has 10 quarters. She wants to buy postcards to mail to her friends. Each postcard costs 2 quarters. How many postcards can she buy?

- What does the question tell you?

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- What does the question ask you to find?

_____

- Draw a picture. Write an equation. Solve and check.

_____

Solve the following problems. Draw a picture to help.

2. Mack has 36 photos. His album can fit 9 photos per page. How many pages will he need to use? _____

3. There are 3 buses taking 96 students on a field trip. If each bus has the same number of students, how many students are on each bus? _____