

A decorative border surrounds the central text, featuring various mathematical symbols and icons in a playful, hand-drawn style. The symbols include numbers (0-9), addition (+), subtraction (-), multiplication (x), division (/), and a calculator. The colors used for the symbols are yellow, blue, green, and red.

# STEP BY STEP PROCEDURE IN PROBLEM SOLVING

## **STEPS IN PROBLEM-SOLVING:**

1. Understand and analyze the problem.
2. Determine the given data/facts.
3. Identify the operations to be used to solve the problem.
4. Write the number sentence and solve.
5. Check the answer. Review and look back at the answer to satisfy the problem.

# Non-routine Problem

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Liza has ₱1,200. She wants to buy markers that cost ₱47.50 each. After buying as many as she can, how much money will she have left?

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**Answer:**

1. Understand and analyze the problem
  - a. What are the given facts?
    - Total money: ₱1,200
    - Cost per marker: ₱47.50
2. Determine the given data/facts
  - a. What is asked?
    - How many markers Liza can buy and the remaining amount.



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**Answer:**

3. Identify the operations to be used and the number sentence.

- Division to determine how many markers she can buy, then multiplication and subtraction to find the leftover money.

- $1,200 \div 47.50 = n$ , is the number sentence.

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**Answer:**

4. Solve the problem

a. First, divide:  $1,200 \div 47.50 = \underline{25.26}$

- **So, Liza can buy 25 markers**

(rounding down to the nearest whole number).

b. Total cost for 25 markers:  $25 \times 47.50 = \underline{1,187.50}$

c. Remaining money:  $1,200 - 1,187.50 = \underline{12.5}$

**Answer: Liza can buy 25 markers and will have ₱12.50 left.**