Possible Solution Sets

By:

The Eastcoasters
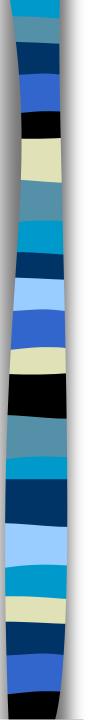
What's it about?

- Process
  - Strategies of looking for patterns
  - Creating an organized list
- Content
  - Experiment with numbers to find all the possible ways to get a product of 24
  - Explore the ways three digits can be placed together to form different three digit numbers

Why patterns?

- Understand patterns, relation, and functions
  - Describe, extend, and make geometric and numeric patterns
  - Represent and analyze patterns and functions using words, tables, and graphs

Why combinations?

- Understand place value structure of base 10 number system and be able to recognize whole numbers

- Develop fluency with basic number combinations

- Recognition of number combinations in daily life

Why Problem Solving?

- Apply and adapt a variety of appropriate strategies
- Monitor and reflect on the process of mathematical problem solving

Why Reasoning and Proof?

- Recognize reasoning and proof as fundamental aspects of mathematics
- Make and investigate mathematical conjectures
- Develop and evaluate mathematical arguments and proofs
- Select and use various types of reasoning and methods of proof

Why Communication?

- organize and consolidate their mathematical thinking through communication;

- communicate their mathematical thinking coherently and clearly to peers, teachers, and others;

- analyze and evaluate the mathematical thinking and strategies of others;

- use the language of mathematics to express mathematical ideas precisely.

Why Connections?

- recognize and use connections among mathematical ideas;

- understand how mathematical ideas interconnect and build on one another to produce a coherent whole;

- recognize and apply mathematics in contexts outside of mathematics.

Why representations?

- create and use representations to organize, record, and communicate mathematical ideas;

- select, apply, and translate among mathematical representations to solve problems;

- use representations to model and interpret physical, social, and mathematical phenomena.

Focus of Lesson
Create an Address

- Forming number combinations to meet specific requirements
- Careful reading of information
- Understanding of mathematical language to find appropriate solutions
- Strategies: Looking for Patterns and Creating an Organized List

Learning Objectives

Students will be able to:

- – Experiment with numbers to find all possible ways to multiply three digits and get a product of 24

- – Explore the ways 3 digits can be placed together to form different three digit numbers

Materials

- "Create a House Number" activity sheet
- Number tiles
- Multiplication chart (modification)
- Calculators (modification)

Extensions

Possible extensions are included in the lesson plan:

- Change the parameters
- Lesson 4- It's a meaty challenge!!

Live Meeting Sharing Slide

Illuminations lesson link

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