

# Developing Number Concepts Strand: A Course for K-8 Teachers

Aldine ISD

Presented by: Pam Dettwiler and Betsy Shipper

# Purpose of the Course

- The vision
- Gaps in students' understanding
- Teachers from K-8 invited

# Course Development

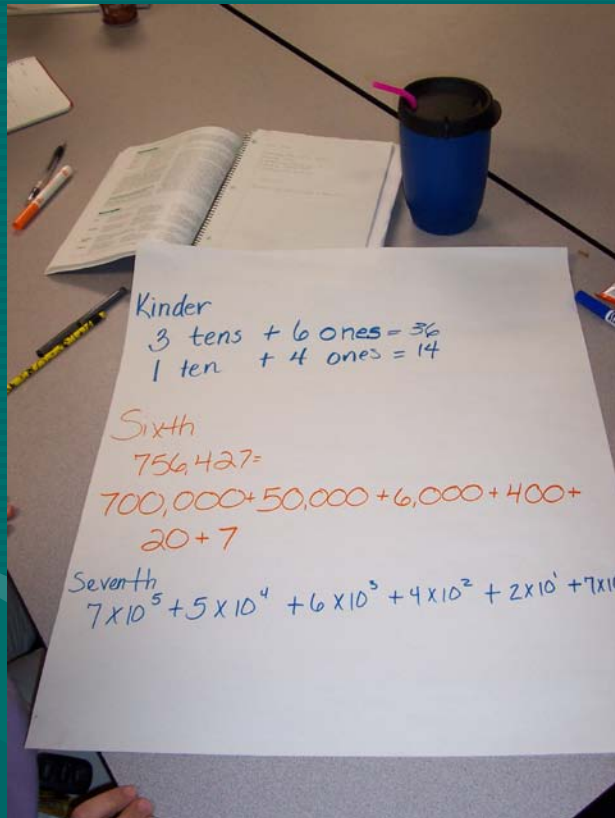
- 30 slots available
- Limited to number concepts
- Textbook
  - Learning Mathematics in Elementary and Middle Schools published by Merrill/Prentice Hall
- Planning
  - Focusing on the vision
  - Mapping development of number concepts
  - Setting a timeline

# Concept and Numeration Development

- Counting Activities
  - Whole Numbers
  - Decimals
  - Fractions



# Operations and Meaning of Operations



- Flashcards
  - Drill and Practice
  - Concept Flashcards
- Prime Numbers
  - Divide by 6

# Concept of Fractions and Decimals

- Fear of Fractions
- Fractions in a Bag
  - What does the whole look like?



# Ratios, Proportions, and Percents



- Proportional Thinking
- Concept development vs. procedures



Two-fifths of the 20  
baseball cards Andy  
has are of New York  
Yankees. How many  
Yankee cards does  
Andy own?





# Reaction of Teachers

- Initial reaction
- Ongoing interaction and collaboration
- Final days

