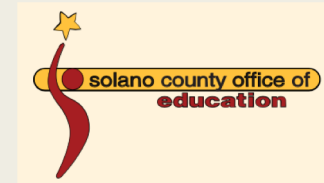


# SLICE IT UP

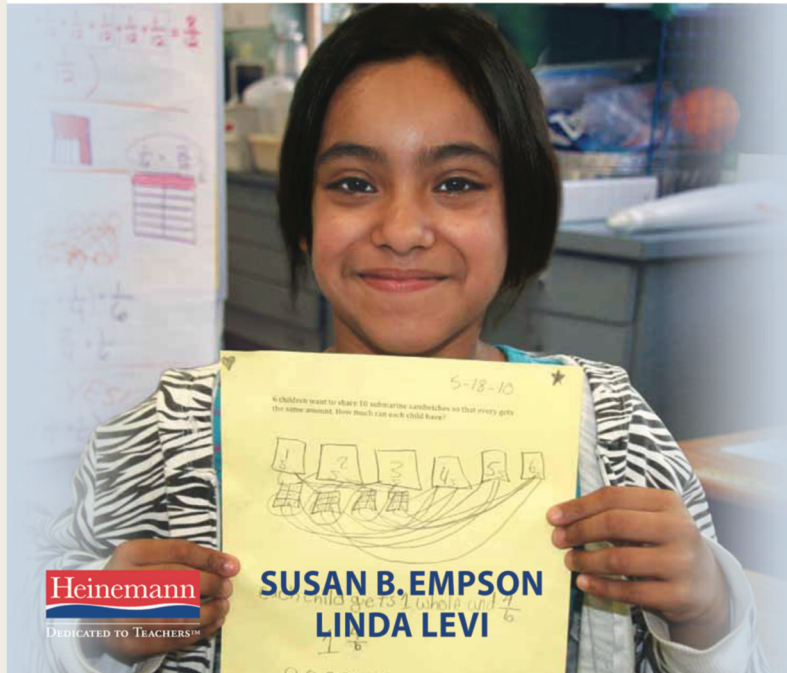
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University of CA-Davis, Davis School District, Solano County Office of Education



# Extending Children's Mathematics Fractions AND Decimals

*Innovations in Cognitively Guided Instruction*

Foreword by  
Thomas P. Carpenter  
Coauthor of  
Children's  
Mathematics

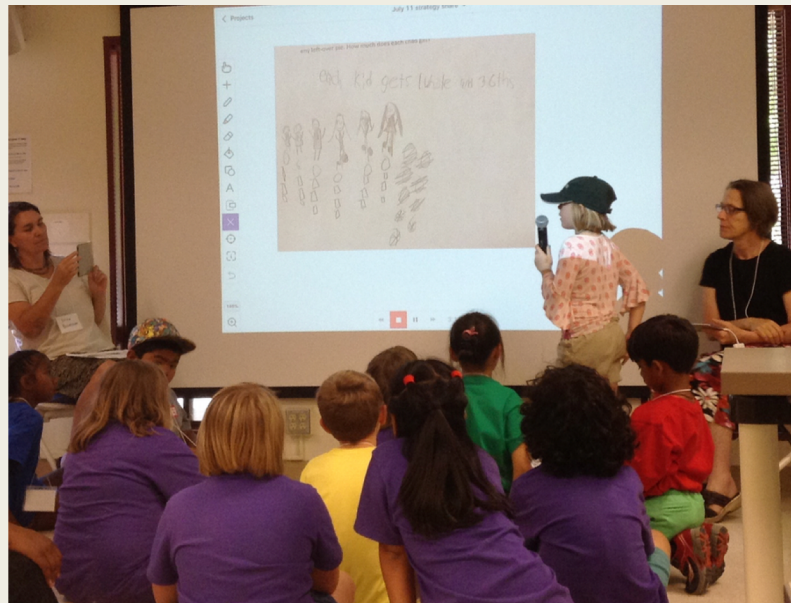


What happens when we use equal-sharing word problems to build meaning for fractions?

# Plan for today's session

- Anticipate children's strategies
- Sort through children's strategies
- Determine which strategies to include in group discussion
- Watch what happened during group discussion
- Discuss implications for your practice

# July 2018 – Fraction Camp



# Show Moira solving problem:

3 girls share 8 burritos. How many burritos should each child get?

What did you notice and what did you wonder?

How might children solve this problem:

Tori, Bella and Merit go to a Mexican restaurant. They are very hungry. They decide to order 8 burritos. How much burrito should each person get so that it's fair?

Write your strategies on the note cards – one strategy per card. Come up with as many different strategies as you can.

# Introduce strategy framework

- Non-Anticipatory, Emergent Anticipatory, Anticipatory

Working in groups of 3 or 4  
Locate own strategies using Empson & Levi  
framework

- We will be there to help you. Please ask if you have questions!!

What did you notice? What did you wonder?

# Decide where student work fits into framework

- Note – one strategy is difficult to place
- Use big cheat sheet to identify strategies
- Record strategy types on blank strategy sheet

# Choose 3 or 4 strategies for children to share during a whole class discussion

- Provide template for recording choice –
  - *Why did you choose it?*
  - *What order?*
  - *Questions you might ask the class about strategy*

# Screen Cast of sharing session

# Next Steps for you

- Equal sharing problem options
- Instructional Guidelines
- Use blank strategy framework to anticipate children's strategy for problems with different numbers

Consult the instructional guidelines for your grade level and think about a problem you might give to your students to get started

Watch S screencast naming fractions

# Material list

- 60 blank strategy sheets (11 x 17)
- 60 intentional talk templates
- 12 cut up strategy sheet
- Blank notecards
- Books (Intentional Talk and Fraction)
- 20 sets of Student work (include extra ones)
- Strategy Sharing Template

Have videos ready to go!!!!