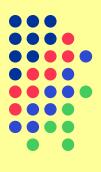
Lesson Study

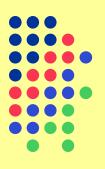
Jamie Gadley, Host teacher, Denise McGuiness, Elizabeth Sampson, Tia Hawkins, Cynthia Walker, Susie Clark Ashton

Research--Misconceptions

- Confusion of coin values (dime and nickel)
- Difficulty with adding across the next dollar
- Addition errors
- Misinterpretation/misunderstanding of problem situation
- Misinterpretation/misunderstanding of question
- Difficulty recording the amount in each piggy bank each days
- Difficulty keeping track of the days
- Not knowing when to stop filling out the chart (i.e. how many days needed to answer the question)
- Recording the amounts on the first day as the original amounts without the addition of the allowance
- Confusion with the day the piggy banks have equal amounts and the day Alex first has more than Celia
- Adding 5¢ as .5 instead of .05
- Adding 5¢ to Alex's piggy bank and 10¢ to Celia's instead of the reverse



Initial Piggy Bank Lesson Will Alex ever have more?







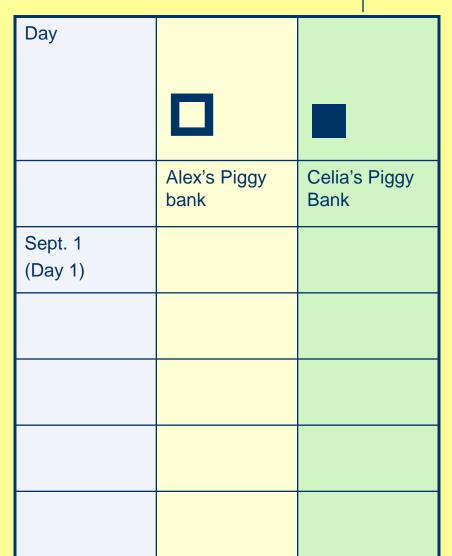
Goals

- To provide a context through which students can use a variety of strategies to solve a problem
- Students will identify, represent, and extend a pattern and explain their problem-solving approach and solution.



Tools to Solve the Problem

- Make a table
- Use coins
- Complete a calendar
- Identify a pattern and solve with number sentence



Synthesizing Student Work

- During the warm up the students played a game where they were given money amounts on a card in coins and they had to find their match in numbers. Most of the students were successful.
- Jamie explained the problem.
- Math tools were placed at their tables.



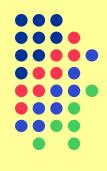


Synthesizing Continued...

- Some were a little confused as to how to solve the problem
- Jamie's scaffolding helped the students to solve problem in multiple ways:
 Charts of their own, some used the provided materials

Others drew pictures

 Students had an opportunity to share out how they solved the problem and what math tools they used.





Enhancing the Lesson







- Some students may have had too many tools to choose from.
- Could use an actual calendar or a specific date attached to the question – just days and the number of days it would take for 'x' to occur.
- Make predictions first about 'x' occurring on a certain day – instead of telling them that 'x' occurred on a certain day.
- Include the extension questions ahead of time to challenge those 'early' finishers.