

## Math Observation 2/15/17

### *Math in Focus, Singapore Math* by Marshall Cavendish, First Grade

#### Unit 4: Number Stories and Equations, Problem Solving

#### Standards Addressed

- CCSS.MATH.CONTENT.1.OA.A.1  
Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.
- CCSS.MATH.CONTENT.1.OA.A.2  
Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.
- CCSS.MATH.PRACTICE.MP1  
Make sense of problems and persevere in solving them.

#### Objectives

- **WALT** write a number sentence to match the word problem.
- **WALT** use objects, drawings, and equations to solve a problem.
- **WALT** persevere through a tough problem to solve.

#### Procedure

- Teach: Problem Solving Task from Problem Solver II.
  - Whole class demonstration of working through a word problem in the Problem Solver II Manual.
    - Sheena grew some flowers. She has 3 more red flowers than blue flowers. She has 5 more blue flowers than yellow flowers. She has 2 yellow flowers. How many red flowers does Sheena have?
  - First, ask a student to restate the problem in their own words.
    - Next, find out what the problem is telling you.
    - What is the next step?
      - Practice solving using number sentences.
        - $2 + 5 = 7$  blue
        - $7 + 3 = 10$  red
      - Practice solving using pictures.
  - Review the three pieces that must be included for each problem.
    - Draw a picture.
    - Show all of your work.
    - Label your answer with the correct unit.
- Partner Practice: Carousel
  - Students will work with their math partner to continue being problem-solving detectives.
    - Look around the room for a problem with your math group's shape on it. Fill out the matching number on your handout and show all of your work.
    - If you are up for a challenge, try a bonus one with a star!

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- If a partnership is already at a given problem, proceed to a problem that is empty.
- Check in with various partnerships, beginning with those that are likely to need extra supports.
- Problems will be selected from *Singapore Math Level 1 Must Know Word Problems*.
- **Differentiation:** different degrees of difficulty for students according to previous math assessments. Students will be assigned a partner to work with from their math group. Problems will be annotated with each of the appropriate group's shapes. Extra challenges will be notated with a star.
  - **Yellow Squares:** Celeste, Rithika, Pedro, Amalie, Derek, Jack
  - **Blue Hexagons:** Vivian, Shriyans, Izzy, Celina, Angela, Shyam, Clara
  - **Red Triangles:** Eli, Eeshvi, Cooper, Emma, Ayish, Jay, Anish
- Differentiated Practice for early finishers: fact fluency practice games.

### Assessment

- **WILF** students working with their partner to write the equation, show their work, and solve for the solution to the word problem.