Title: Fusionte Expressions Ropin/Legative 13-1 Teacher:

Leading Objects/leaving

 Col. A.1 Use parentheors, brackets, or braces in numerical expressions, and evaluate expressions with these symbols. Leacoling Respect I can evaluate expressions with parentheses, brackets, and braces by using the order of operations.

Exampled Sindesstanding: There is an agreed upon order in which operations are carried out in a numerical expression.

Solve and Share Problem

- Powe the Bolve and Share Problem (page 537): Jordan and Armika are working on 15 * 52 + 3 * 5. Jordan says
 the answer is 34 and Armika says the answer is 34. Who is right?
- 2. Check for understanding: What are you given?

What are you saled to do?

- 3. Ask Golding Questions As Needesk Does 8 matter what order you do the operations?
- if neither person made a miotake, who is porvect?
- Share and Discuss Solutions: Focus on the steps used to evaluate the expression. If needed, show and discuss.
 Charlie's and Cameron's work.
- 6. Extension for Early Finishers: On the board, write 12 = 25 N = 4 N = 2 % in what steps would you evaluate this enginession to set a value of 127 First subtract, then divide, then add.

Militar Legacione

Cheromical Michael Learning Income Schiller

Such enables tend $((7 \times 2) - 2) = 8 = 2 \times 3$. To avoid petting more than one answer, he used the order of operations given at the right.

Ask: What should lack do first? Evaluate the expression inside the pure-theses.

Ask What should lack do rest? I saluate the expression inside the brackets

Ask in Step 1, what would you do if there were no parentheses inside the brackets? You would still multiply 7 x 2. first.

Ask Why? The order of operations says to dis multiplication before subtraction

Ask in Step 2, you divide before you multiply. Would you get the same result if you multiply before you divide? Sumple answer: If you multiply 2 x 2, instead of dividing 5 by 2 and the multiplying by 3, you will get 11 x 5/5, or 12 1/2, instead of 12 for a final answer.

Ask: Why was a subtraction performed prior to Step 37 Co-mations that appear inside parentheses or trackets are alread done first.

Remind students that there is an agreed upon way to evaluate expressions with two-or more operations. Students should do the operations inside the parentheses, brackets, and braces first, then multiply and divide in order from self to right, and finally add and substact in order from self to right.

Complines and - Would the value of [2+[(25-2)-6]) + 2 change if the braces were removed? Explain. Not. The value of this expression if 4 faithract 3 from (3 to get 12 Next subtract 6 from 12 to get 6. Then add 2 and 6. Divide the sum, 8, to 2 to get 4. Without the braces, the value would be 5. Subtract 3 from 13 to get 12. Then subtract 6 from 12 to get 6 reset divide 6 to 12 to get 3. Finally add 2 to 2 to get 5.

Guided Priorities

Students will use knowledge of evaluating expression to answer two questions in the guided practice portion.

Independent Practice

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