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ED609-81

Error Analysis #1

1. What has the student done well and/or what makes sense about the student's thinking, even if it is incorrect or incomplete?

The student comprehends that in order to get an answer they need to look at the problem in sections and they successfully worked in 3 different columns. They also knew that the answer would be found at the bottom of the equation and they knew where to write their answer. In addition, although they did add instead of subtracting, their addition was correct.

2. What error has the student made? What are the big mathematical concepts underlying this error?

The student has made various errors in this problem, but the first one they made was not double checking if they were supposed to add or subtract. In this case the child was supposed to subtract, but instead they added. The second mistake the child made was that they added in the incorrect order. For example, they started on the left, went to the far right and ended with the middle column when they should have started on the right and moved to the left.

3. What is one assessing question you could use to learn more about the student's thinking?

One assessing question I would ask to learn more about the student's thinking is "Why did you start on the left?" This would allow me to find out why the student chose to start in the wrong place. For example, I would see if they forgot or if they need a refresher.

4. What manipulatives, representations or other interventions could you use to draw the student's attention to the underlying concept?

For this child, I would build two different anchor charts. I would make one all about subtraction and one all about addition. In the anchor charts I would have the symbols + and - and what they are, as well as an example.

5. What is one advancing question you could use to help the student move forward without giving away the answer?

One advancing question I could use to help the student move forward without giving away the answer is "I wonder what is the first thing we look at when starting a math problem like this?" This question allows the student to think about what they missed and they will realize that the first thing they have to identify is if the problem is addition or subtraction.