Fraction Reflection

Reflection Questions: **Must be Typed**. (This focuses more on reflecting *about teaching* than some of the previous reflection questions.)

(1) This problem was on the 1982 NAEP (National Assessment of Educational Progress). Approximately equal numbers of 13-year-olds taking the test chose each of the four answers. Of the 17-year-olds, only 37% got the correct answer.

Estimate the answer: $\frac{12}{13}+\frac{7}{8}$?

(a) 1 (b) 2 (c) 19 (d) 21

- Answer the following multiple choice question yourself first.
- Describe what might have been the student's thinking in each one of the answers given as choices above.
- What does this show about their concept of adding fractions?
- How would you correct the mistaken answers?

(2) Consider each of the statements below from real classrooms. Decide if the statement is correct. If it is, explain why. If it is wrong, give a counter example, and then, modify the statement so that it is correct. (Don't just negate statement when correcting it.)

(i) "The bigger the denominator, the smaller the fraction."
(ii) "When you multiply two numbers together, you always get a bigger number."
(iii) "When you divide, you always get a smaller number."