Number Unit 2 Line Master 7a Choosing a Common Denominator

Mikala shared this solution to a fraction calculation.

$$2\frac{1}{2} + \frac{2}{3} - \frac{1}{4} - \frac{1}{6} = 2\frac{1}{2} \times \frac{72}{72} + \frac{2}{3} \times \frac{48}{48} - \frac{1}{4} \times \frac{36}{36} - \frac{1}{6} \times \frac{24}{24}$$
$$= 2\frac{72}{144} + \frac{96}{144} - \frac{36}{144} - \frac{24}{144}$$
$$= 2\frac{72}{144} + \frac{36}{144}$$
$$= 2\frac{108}{144}$$

1. Is Mikala's solution correct? If it is, explain how you know. If not, explain where Mikala made a mistake.

Number Unit 2 Line Master 7b

Choosing a Common Denominator

2. Kaari solved the same question and got an answer of $2\frac{3}{4}$.

Explain how you know that Kaari's and Mikala's answers are the same.

3. Suggest a smaller common denominator that Mikala could have used in their solution. What strategy could Mikala use to determine this smaller value?