

Adding & Subtracting Fractions

Name:

Date:

INQUIRY

A recipe for German Kartoffelsalat (potato salad) needs $\frac{3}{4}$ cup of vinegar and $\frac{1}{3}$ cup of oil. How much liquid is that in total?

Discuss with your partner. Write your initial ideas below:

Key Vocabulary

Term	Definition
Common denominator	A shared denominator needed to add or subtract fractions.
LCD	Lowest Common Denominator.

Part A — Same Denominator

1. Calculate: (a) $\frac{3}{8} + \frac{2}{8}$ (b) $\frac{7}{10} - \frac{3}{10}$ (c) $\frac{5}{6} - \frac{1}{6}$. [3 marks]

Show your working:

Part B — Different Denominators

2. Calculate: (a) $\frac{2}{5} + \frac{1}{3}$ (b) $\frac{3}{4} - \frac{1}{6}$ (c) $\frac{5}{8} + \frac{1}{4}$. [6 marks]

Show your working:

3. Kartoffelsalat: $\frac{3}{4}$ cup vinegar + $\frac{1}{3}$ cup oil. Find the total amount of liquid. [2 marks]

Show your working:

Part C — Mixed Numbers

4. Calculate: $2 \text{ and } \frac{1}{3} + 1 \text{ and } \frac{3}{4}$. [2 marks]

Show your working:

5. A Korean hiker walks $3 \text{ and } \frac{1}{2}$ km, then $2 \text{ and } \frac{3}{4}$ km. Total distance? [2 marks]

Show your working: