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Subject and topic

Learning objective and source

Key concepts

Explain it in your own words

Worked question and checked answer

Recall questions without notes

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FICTIONAL FILLED EXAMPLE

Subject and topic

Mathematics | Adding fractions with different denominators

Learning objective and source

Add $\frac{3}{4}$ and $\frac{1}{8}$ and explain the common denominator. Source: your assigned lesson and checked course examples.

Key concepts

Equivalent fractions represent the same value. Use a common denominator before adding numerators.

Explain it in your own words

Rename quarters as eighths: $\frac{3}{4} = \frac{6}{8}$. The pieces must have the same size before their counts can be added.

Worked question and checked answer

$\frac{3}{4} + \frac{1}{8} = \frac{6}{8} + \frac{1}{8} = \frac{7}{8}$. Check: $0.75 + 0.125 = 0.875$, which equals $\frac{7}{8}$.

Recall questions without notes

Why use eighths here? What is $\frac{1}{2} + \frac{1}{4}$? After trying: $\frac{1}{2} = \frac{2}{4}$, so the sum is $\frac{3}{4}$.

Weak area and correction

First attempt added denominators. Correction: rename both fractions, keep the common denominator and add numerators.

Next revision date and task

Choose your next available session. Solve $\frac{2}{3} + \frac{1}{6}$ without notes, then check: $\frac{4}{6} + \frac{1}{6} = \frac{5}{6}$.