

Fractions (Including Problems)

Chapter 3: Fractions (Including Problems) · Topic 1

Key Concept

Multiplying fractions involves multiplying numerators together and denominators together, like $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12}$, which simplifies to $\frac{1}{2}$.

Dividing fractions involves multiplying by the reciprocal (flipped fraction) of the divisor, like $\frac{2}{3} \div \frac{1}{2} = \frac{2}{3} \times \frac{2}{1} = \frac{4}{3}$.

Word problems with fractions require careful reading to determine whether we need to add, subtract, multiply, or divide.

Mastering fraction operations and word problems builds important skills for real-life situations like cooking, construction, and finance.

Quick Revision Notes

- Multiply fractions: multiply numerators and denominators.
- $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$.
- Divide fractions: multiply by the reciprocal.
- $\frac{2}{3} \div \frac{1}{2} = \frac{2}{3} \times \frac{2}{1} = \frac{4}{3}$.
- Word problems need careful operation identification.
- Fraction skills apply to cooking and construction.
- They also apply to finance.
- Practice builds strong fraction problem-solving.

Practice Questions

- 1 Multiply $\frac{3}{4} \times \frac{2}{5}$.
- 2 Divide $\frac{4}{5} \div \frac{2}{3}$.
- 3 Solve: If a recipe needs $\frac{2}{3}$ cup and you make half, how much do you need?
- 4 Discuss the steps to divide fractions.
- 5 Solve a fraction word problem about sharing.
- 6 Practice three mixed fraction operations.