

Proportion (Including Word Problems)

Chapter 12: Proportion (Including Word Problems) · Topic 1

Key Concept

A proportion is written as two equal ratios, like $2:3 = 4:6$, showing both ratios represent the same relationship.

We can solve for an unknown value in a proportion using cross multiplication, like solving $2:3 = x:9$.

Proportions are used to solve real-life problems, like scaling a recipe for more people or converting between units.

Understanding proportions helps us make accurate comparisons and predictions based on known relationships between quantities.

Quick Revision Notes

- A proportion shows two equal ratios.
- Example: $2:3 = 4:6$.
- We solve unknowns using cross multiplication.
- $2:3 = x:9$ can be solved this way.
- Proportions help scale recipes.
- They help convert between units.
- Proportions make accurate predictions.
- They compare known relationships between quantities.

Practice Questions

- 1 Solve: $3:4 = x:12$.
- 2 Scale a recipe using proportion (double the ingredients).
- 3 Solve: $5:6 = 10:x$.
- 4 Discuss a real-life example of proportion.
- 5 Explain cross multiplication in your own words.
- 6 Solve two proportion word problems.