

Ratio

Chapter 11: Ratio · Topic 1

Key Concept

A ratio like 3:4 means for every 3 units of one thing, there are 4 units of another, comparing their relative sizes.

Ratios can be simplified, similar to fractions, by dividing both numbers by their common factor.

For example, the ratio 6:8 simplifies to 3:4 by dividing both numbers by 2.

Ratios are used in real life for recipes (like mixing ingredients), maps (scale ratios), and comparing quantities.

Quick Revision Notes

- A ratio compares two quantities.
- 3:4 means 3 units to 4 units.
- Ratios can be simplified like fractions.
- We divide by the common factor to simplify.
- 6:8 simplifies to 3:4.
- Ratios are used in recipes.
- Maps use scale ratios.
- Ratios help compare quantities.

Practice Questions

- 1 Simplify the ratio 10:15.
- 2 Write a ratio comparing boys and girls in your class.
- 3 Discuss a recipe that uses a ratio.
- 4 Simplify 12:18.
- 5 Explain what a 1:100 map scale means.
- 6 Solve a word problem using ratio.