

Recognise, represent and solve problems involving ratios

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Learning intention

- recognise, represent and solve problems involving ratios

Teach and model

- using diagrams, physical or virtual materials to represent ratios, recognising that ratios express the quantitative relationship between 2 or more groups; for example...
- using fractions to solve ratio problems involving comparison of quantities and considering part-part and part-whole relations; for example, dividing a set into the...
- sharing quantities in a given ratio; for example, sharing an amount of money in a given ratio, such as sharing \$20 in the ratio 2:3

Check understanding

- Explain the main idea in recognise, represent and solve problems involving ratios using an example.
- Show the idea in a second way: with words, a model, a diagram or symbols.
- Apply the idea to a short unfamiliar situation and justify the result.

Teaching cautions

- Ask the student to explain their choice, not only state an answer.
- Check that key vocabulary is understood in a new example.
- Mix representations so the skill is transferred rather than copied.

Quick lesson sequence

- Connect to prior knowledge and introduce the key vocabulary.
- Model one clear example, then solve a second example together.
- Finish with an independent check and a short student explanation.