

And use rates to solve problems involving the comparison of...

recognise and use rates to solve problems involving the comparison of 2 related quantities of different units of measure

Learning intention

- recognise and use rates to solve problems involving the comparison of 2 related quantities of different units of measure

Teach and model

- identifying examples of rates in the real world, including constant rates, rate of pay, cost per kilogram, recipes, simple interest and average rates
- applying rates to solve problems involving the conversion between different units of measure; for example, using a conversion rate to convert distances from miles into...
- applying rates to calculate solutions to problems in different contexts; for example, required run rates in cricket, dilution of concentrated chemicals and comparing the...

Check understanding

- Explain the main idea in and use rates to solve problems involving the comparison of... 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.