

Establish the formula for the area of a rectangle and...

establish the formula for the area of a rectangle and use it to solve practical problems

Learning intention

- establish the formula for the area of a rectangle and use it to solve practical problems

Teach and model

- using one centimetre grid paper to construct a variety of rectangles, recording the side lengths and the related areas of the rectangles in a table to establish the formula...
- using the relationship between the length and area of square units and the array structure to derive a formula for calculating the area of a rectangle from the lengths of...
- solving problems involving the comparison of lengths and areas using appropriate units

Check understanding

- Explain the main idea in establish the formula for the area of a rectangle and... 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.