

Area Using Grid Squares

Chapter 11: Grandmother's Quilt · Topic 2

Key Concept

Area tells us how much surface a shape covers, and we can measure it by counting full and partial squares on a grid.

For simple shapes on a grid, like rectangles, we count the total number of squares inside the shape to find its area.

For shapes with partial squares, we can estimate by counting full squares as 1 and combining partial squares that together make roughly a full square.

Understanding area through grid counting builds a foundation for learning area formulas, like length $\times$ width for rectangles, in more detail later.

Quick Revision Notes

- Area tells us how much surface a shape covers.
- We count grid squares to find area.
- Rectangles' area equals the total squares inside.
- Partial squares can be combined to estimate area.
- This method builds a foundation for area formulas.
- Length $\times$ width is a formula for rectangle area.
- Grid counting makes area a hands-on concept.
- Area is measured in square units, like square centimetres.

Practice Questions

- 1 Draw a rectangle on grid paper and count its area.
- 2 Draw an irregular shape and estimate its area using grid squares.
- 3 Find the area of your notebook page using a grid method, if possible.
- 4 Compare the area of two different shapes on grid paper.
- 5 Explain the length $\times$ width formula in your own words.
- 6 Practice finding the area of three more grid shapes.