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What is Area and Perimeter

Unlock the Secrets of Area and Perimeter!

DEFINITION

> Area is the space inside a shape, while perimeter is the distance around it.

KEY CONCEPTS

Area

Area measures how much space is inside a shape, like a square or rectangle.

Perimeter

Perimeter is the total length of all the sides of a shape.

Units of Measurement

Area is measured in square units (like square meters), while perimeter uses linear units (like meters).

Formulas

Common formulas include Area = length × width for rectangles and Perimeter = 2(length + width).

Shapes

Different shapes have different formulas for calculating area and perimeter.

EXAMPLES

→ A rectangle with length 4m and width 3m has an area of 12m².

→ The perimeter of a square with sides of 2m is 8m.

→ A triangle with base 5m and height 4m has an area of 10m².

MEMORY TIPS

★ Remember: Area is 'A' for 'All inside', Perimeter is 'P' for 'Path around'.

★ Think of Area as 'A' for 'Amount of space' and Perimeter as 'P' for 'Perimeter path'.

★ Use the formula 'L × W' for Area and '2(L + W)' for Perimeter to recall easily.

COMMON MISTAKES

✗ Confusing area with perimeter by mixing up formulas.

✗ Forgetting to square the units when calculating area.

✗ Not adding all sides correctly when calculating perimeter.

QUICK RECAP

Area tells us how much space is inside a shape, while perimeter measures the boundary length. Remember the formulas for different shapes to solve problems accurately.