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What is Area and Perimeter

Discover the Basics of Area and Perimeter!

DEFINITION

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

KEY CONCEPTS

Area

Area is the amount of space inside a shape, measured in square units.

Perimeter

Perimeter is the total distance around a shape, calculated by adding all sides.

Square Units

Area is often measured in square units, like square meters or square feet.

Linear Units

Perimeter is measured in linear units, such as meters or feet.

Formulas

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

EXAMPLES

- A rectangle with length 4m and width 3m has an area of 12m².
- The perimeter of a square with each side 5m is 20m.
- A triangle with sides 3m, 4m, and 5m has a perimeter of 12m.

MEMORY TIPS

- ★ Remember: Area is 'A' for 'All inside' and Perimeter is 'P' for 'Path around'.
- ★ Think of Area as 'squared' shapes and Perimeter as 'linear' lines.
- ★ Use the acronym 'AP' to remind you of Area and Perimeter.

COMMON MISTAKES

- ✗ Confusing area with perimeter by mixing up the formulas.
- ✗ Forgetting to use the correct units when calculating area or perimeter.
- ✗ Neglecting to add all sides when calculating perimeter.

QUICK RECAP

Area measures the space inside a shape, while perimeter measures the distance around it. Remember the formulas and units for accurate calculations. Review examples to solidify your understanding.