# Know perimeter and area formulas for plane shapes, composites and circular arcs.

## Key knowledge | Free preview

Learning target: Know perimeter and area formulas for plane shapes, composites and circular arcs.

Perimeter follows the external boundary, while area measures the enclosed region. Composite shapes require identifying shared edges that are no longer external. Arc and sector formulas use the angle as a fraction of a full turn. Keeping pi until the end preserves exact values and avoids unnecessary approximation during intermediate steps.

## Try the mathematics

Task 1. A circle of radius 6 cm has a 120° sector. Find its arc length, sector area and full sector perimeter.

## Continue with the full worksheet

The complete resource has 2 focused task sets and substantive worked solutions. Use an exercise book or print the A4 worksheet. This preview shows the first task without its full solution.

Find this resource: https://resources.aspiretopowerlearning.com.au/vce/skills/aspire-internal-gm-u2-o1-aos4-kk-05/

## Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Unit 2; Outcome 1; Key knowledge; Space, measurement and applications of trigonometry; bullet 5; p. 39.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u2-o1-aos4-kk-05. This is an internal identifier, not an official VCAA code.

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