

REVISION GUIDE

Geometry Formula Reference Pack

A richer geometry reference pack covering area, perimeter, circles, and triangle methods with unit reminders and method-selection guidance.

QUICK OVERVIEW

Category: geometry trigonometry

Includes 4 related guide pages.

Links back to 8 calculator tools.

FORMULA HIGHLIGHTS

Circle area

$$A = \pi r^2$$

Sphere volume

$$V = \frac{4}{3} \pi r^3$$

WHAT THIS PACK IS FOR

Use this pack when you need a printable geometry summary that separates boundary length, enclosed area, and the formulas that connect common flat shapes.

AREA VERSUS PERIMETER

- Perimeter -> boundary length
- Area -> enclosed surface
- Keep linear and squared units distinct

COMMON FORMULAS

- Rectangle area: $l \times w$
- Rectangle perimeter: $2(l + w)$
- Circle area: πr^2
- Circumference: $2\pi r$
- Triangle area: $0.5 \times \text{base} \times \text{height}$

WORKED EXAMPLES

A 6 m by 4 m rectangle has area 24 m^2 and perimeter 20 m.

A circle of radius 3 cm has circumference $6\pi \text{ cm}$ and area $9\pi \text{ cm}^2$.

QUICK REMINDERS

- Convert dimensions to a common unit before calculating.
- Composite shapes are often best split into simpler known shapes.