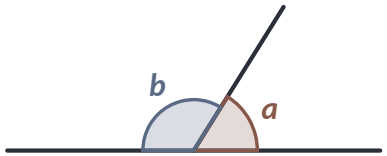
Angle facts: fact sheet

Planner week 2 · Learn these facts

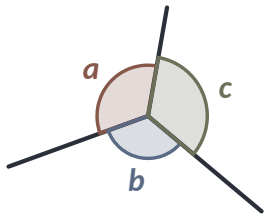
Angles on a straight line



a + b = 180°

Angles on a straight line add up to 180°

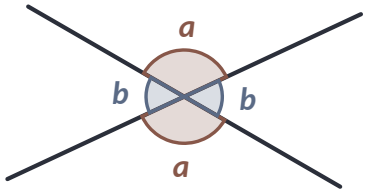
Angles around a point



a + b + c = 360°

Angles around a point add up to 360°

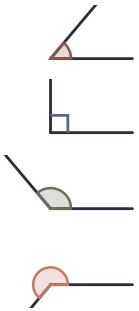
Vertically opposite angles



the two a angles are equal

Vertically opposite angles are equal

Types of angle



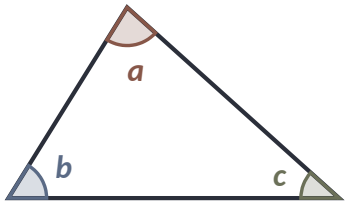
Acute
less than 90°

Right angle
exactly 90°

Obtuse
between 90° and 180°

Reflex
more than 180°

Angles in a triangle



a + b + c = 180°

Angles in a triangle add up to 180°

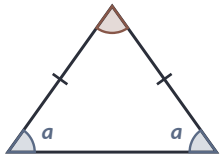
Angles in a quadrilateral



a + b + c + d = 360°

Angles in a quadrilateral add up to 360°

Isosceles triangle



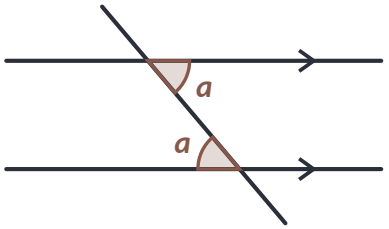
dashes = equal sides, so the base angles are equal

Base angles in an isosceles triangle are equal

Exam tips

- **Markings**: arrows = parallel, dashes = equal sides, small square = 90°.
- Diagrams are **not drawn accurately**: work it out, don't measure.
- **"Give a reason"**: copy the exact words in the shaded boxes.
- **Parallel lines**: can I make a **Z**, **F** or **C**?
- Write each angle **on the diagram** as you go.
- **Equilateral** triangle: all angles are 60°.

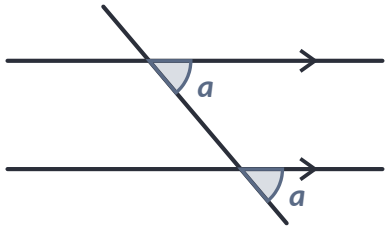
Alternate angles · Z shape



the two a angles are equal

Alternate angles are equal

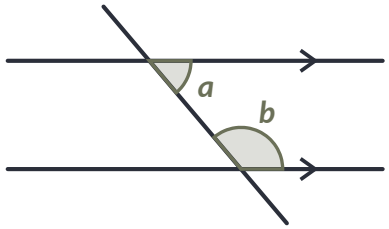
Corresponding angles · F shape



the two a angles are equal

Corresponding angles are equal

Co-interior angles · C shape



a + b = 180°

Co-interior angles add up to 180°

Key words

- **Parallel**: lines that never meet
- **Vertically opposite**: across from each other where two lines cross
- **Isosceles**: 2 equal sides and 2 equal angles
- **Interior angle**: an angle inside a shape