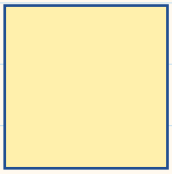
Shapes and objects

Space · VC2M4SP01

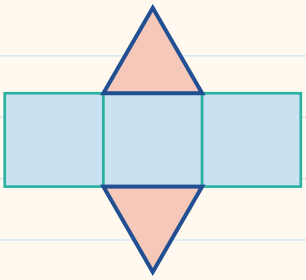
2D shapes are flat; 3D objects have depth.



square



rectangle



Net: 2 triangles + 3 rectangles

☆ Recognise a polygon

A polygon is closed and has only straight sides.

Triangle: 3 sides; quadrilateral: 4; pentagon: 5; hexagon: 6.

☆ Compare quadrilaterals

Square: 4 equal sides, 4 right angles. Rhombus: 4 equal sides.

Rectangle: opposite sides equal and 4 right angles.

Trapezium (here): exactly 1 pair of opposite sides parallel.

☆ Compare faces, edges and vertices

Cube: 6 square faces, 12 edges (joins), 8 vertices (corners).

Triangular prism: 5 faces, 9 edges, 6 vertices.

Square-based pyramid: 5 faces, 8 edges, 5 vertices.

☆ Flat faces and curved surfaces

Cylinder: 2 flat faces + 1 curved; cone: 1 flat + 1 curved.

Sphere: 1 curved surface; no flat faces, edges or vertices.

☆ Faces and nets: flat plans that fold

Triangular prism: 2 triangles + 3 rectangles; cube: 6 squares.

Square pyramid: 1 square + 4 triangles; fold without face overlaps.

Remember...

A cube has 1 more face and 2 more vertices than a triangular prism.

A square is a special rectangle and a special rhombus.