

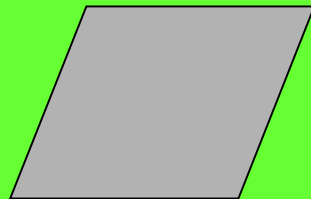
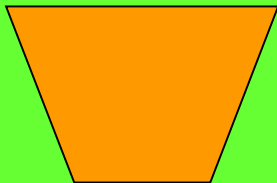
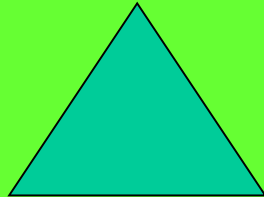
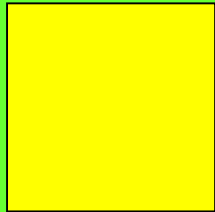
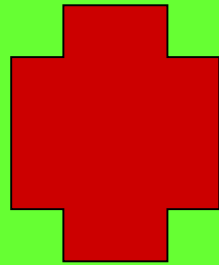
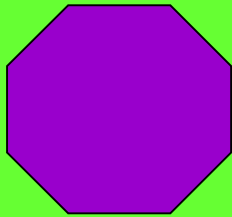
3D Shape

# One-dimensional (1D)

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- This is one-dimensional
- It has only one dimension - length
- The only one-dimensional shape is a line

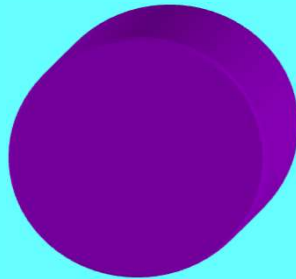
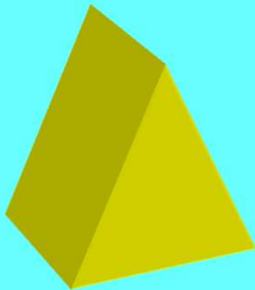
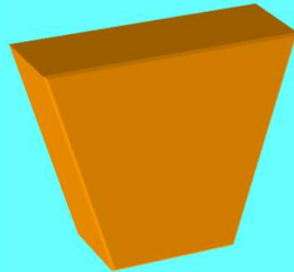
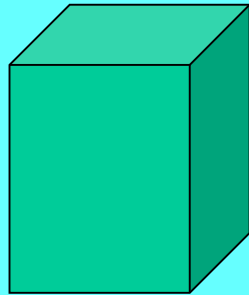
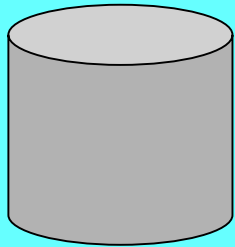
# Two-dimensional Shapes (2D)



- These shapes are flat and can only be drawn on paper.
- They have two dimensions - length and width.

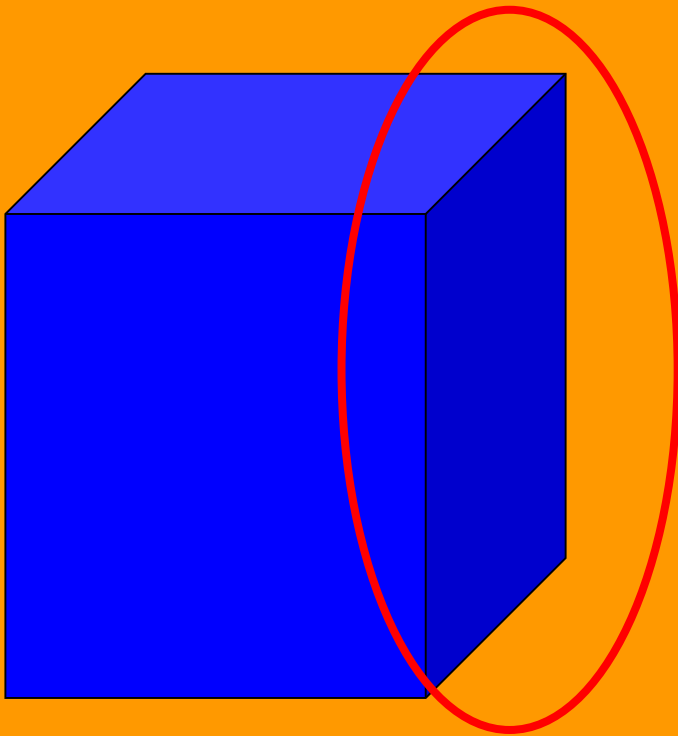


# Three-dimensional Shapes (3D)



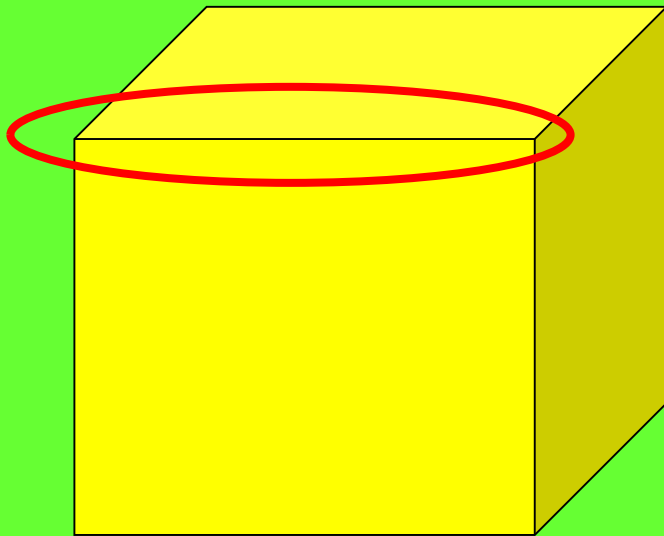
- These shapes are solid or hollow.
- They have three dimensions - length, width and height.

# Face



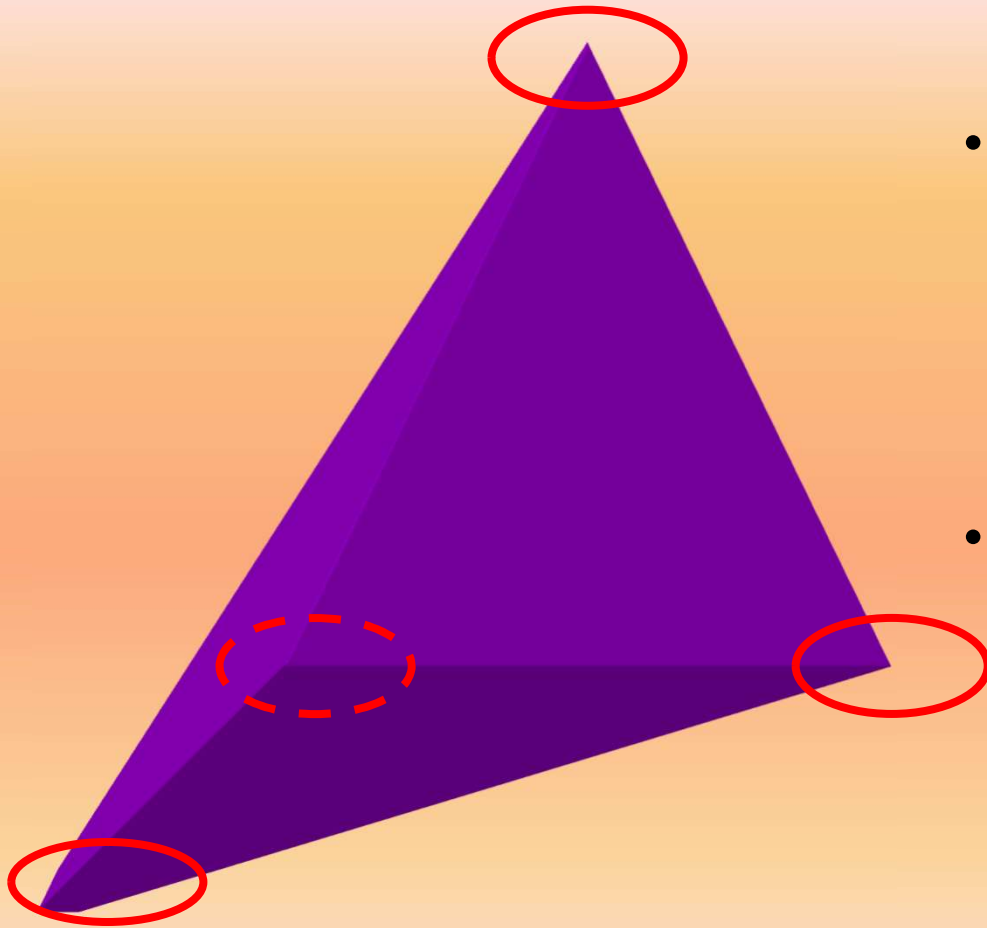
- Part of a shape that is flat.(Or curved)
- e.g. A cube has 6 of these.

# Edge



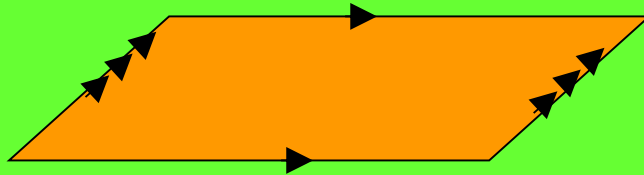
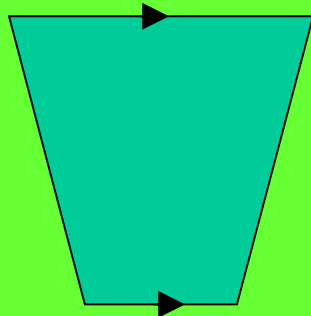
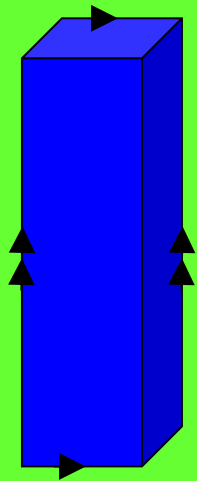
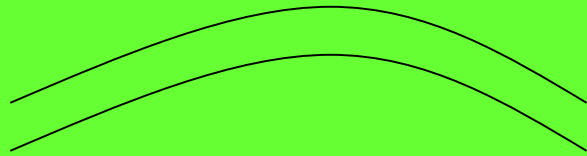
- The line where two faces meet.
- e.g. A cube has 12 of these.

# Vertex (Vertices)



- The place where three or more edges meet.
- This pyramid has 4 of these.

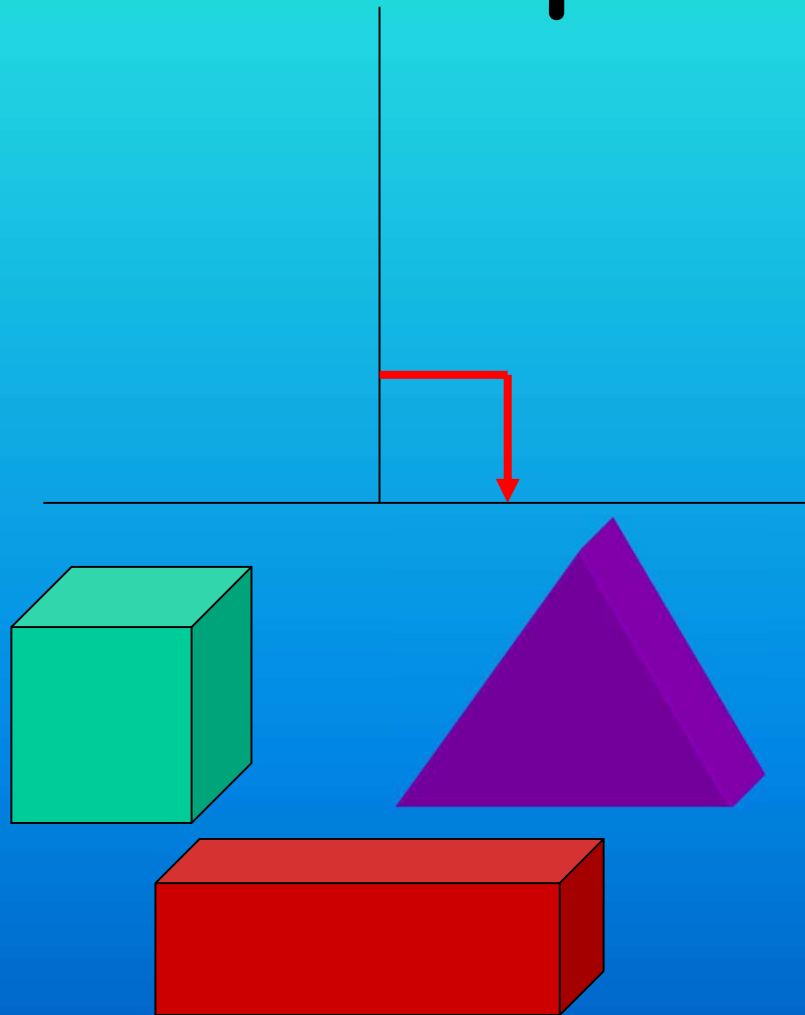
# Parallel



- These type of lines stay the same distance apart for their whole length. They do not need to be straight or the same length.

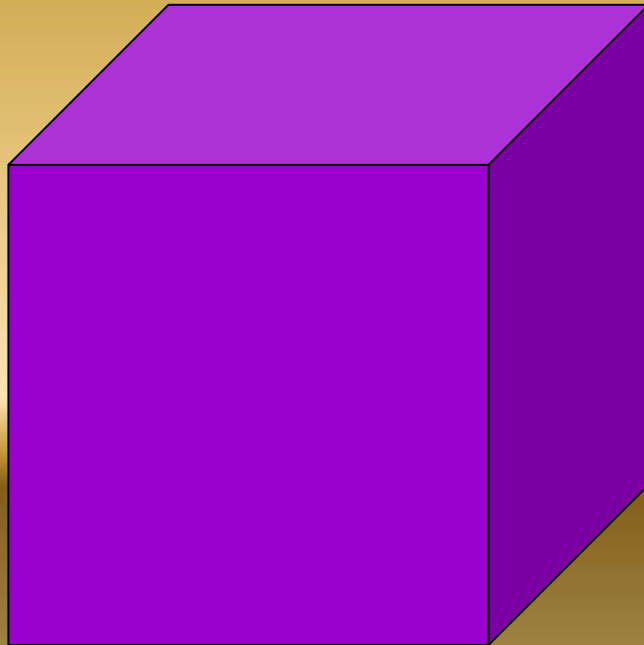


# Perpendicular



- A line that is drawn in a right angle to another line .
- In solid shapes edges could be at a right angle to one another.
- Faces could also be at right angles to one another.

# Cube



- A three-dimensional shape which has 6 square faces all the same size.

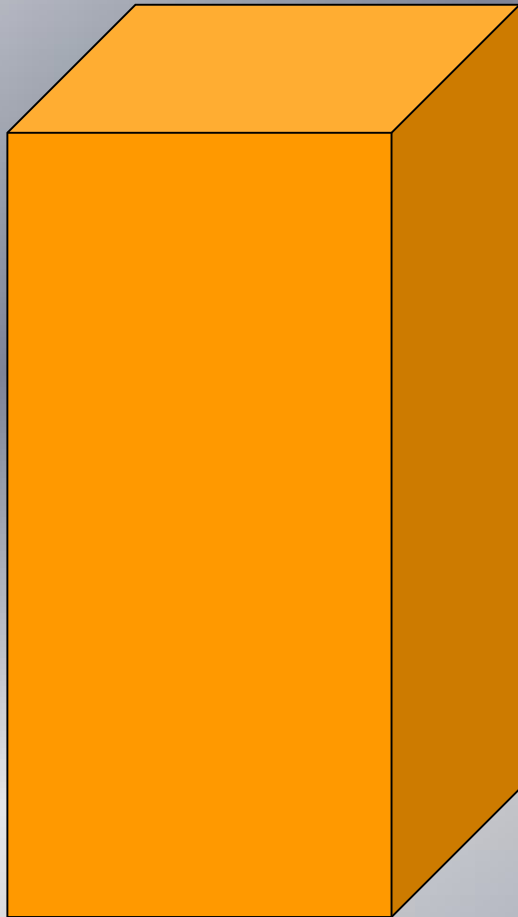
Some faces parallel

Some edges parallel

Some faces perpendicular

Some edges perpendicular

# Cuboid



- A three-dimensional shape which has 6 rectangular faces.

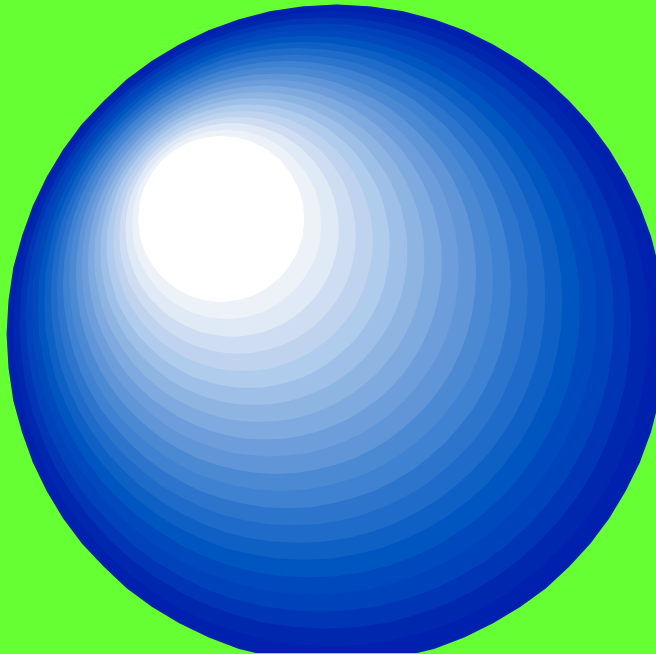
Some faces parallel

Some edges parallel

Some faces perpendicular

Some edges perpendicular

# Sphere



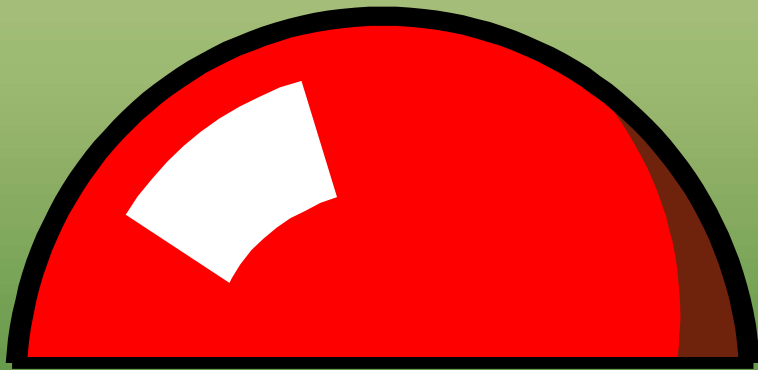
- A perfectly round three-dimensional shape, like a ball. It has only one curved face.

No parallel faces or edges

No perpendicular faces or edges

# Hemisphere

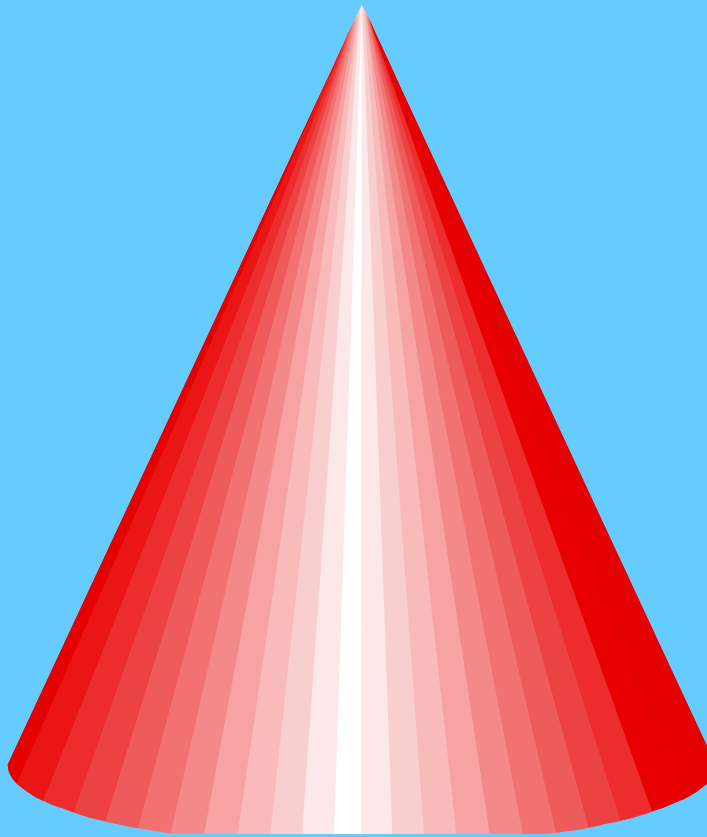
- A three-dimensional shape that is half a sphere.



No parallel faces or edges

No perpendicular faces or edges

# Cone

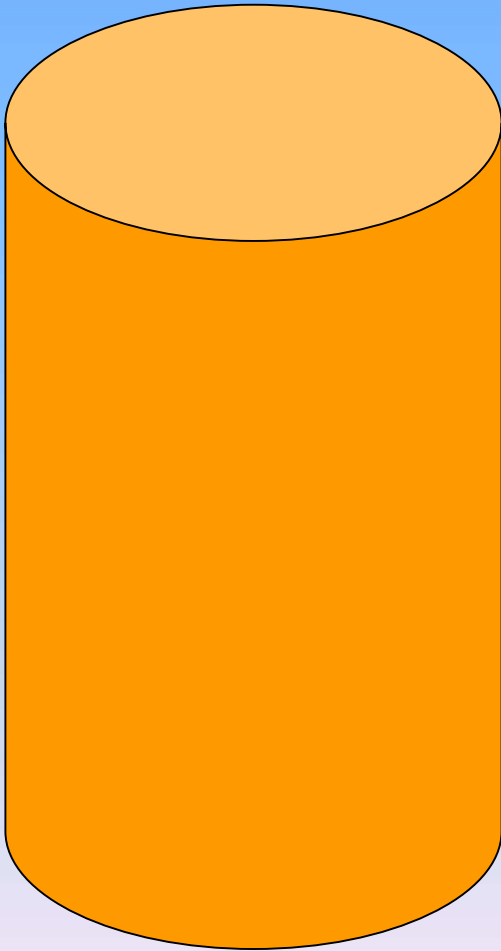


- A three dimensional shape with a circle at its base and a pointed vertex.

No parallel faces or edges

No perpendicular faces or edges

# Cylinder



- A three-dimensional shape with circular ends of equal size.

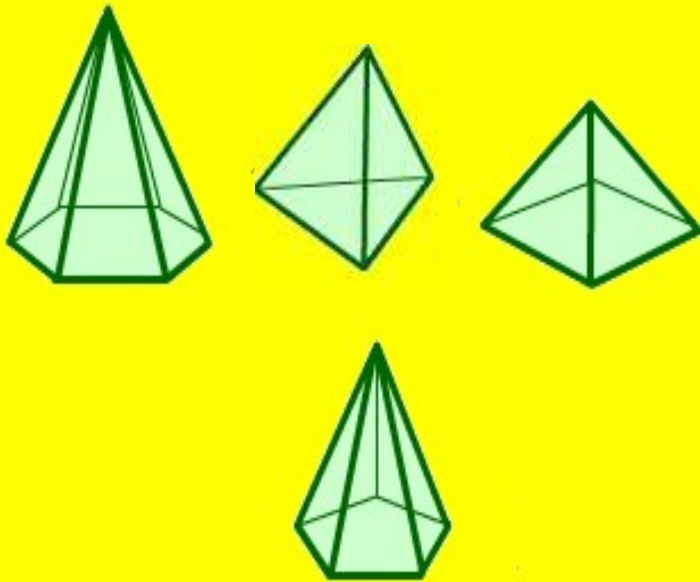
Some faces parallel

Some edges parallel

Some faces perpendicular

No edges perpendicular

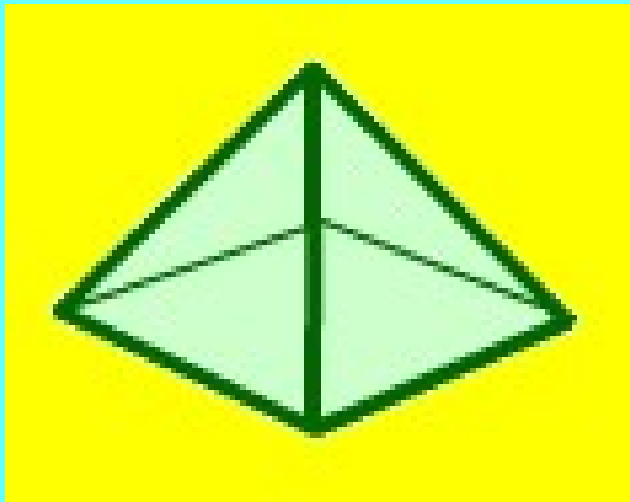
# Pyramid



- A three-dimensional shape which has a polygon for its base and triangular faces which meet at one vertex.
- E.g. Triangular pyramid
  - Square pyramid
  - Hexagonal pyramid
  - Pentagonal pyramid



# Square base pyramid



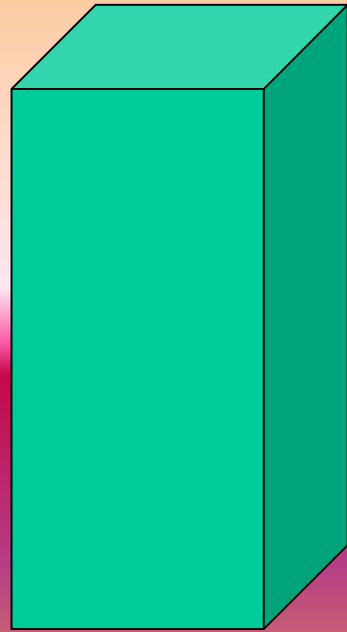
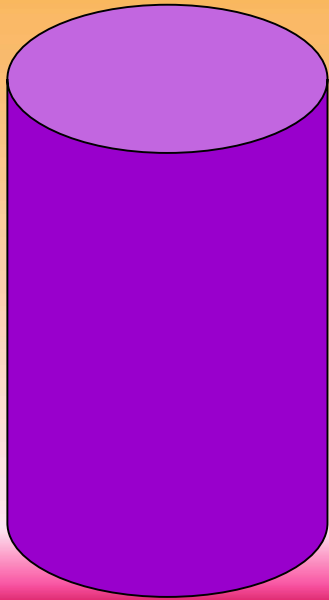
No faces parallel

Some edges parallel

No faces perpendicular

Some edges perpendicular

# Prism



- A three dimensional shape that has the same cross-section all along its length.

# Nets

The **net of a shape** is what it looks like when it is opened out flat.

