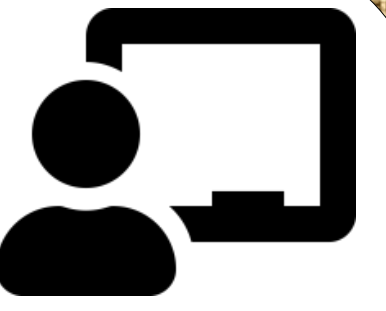




# 3-D Shapes







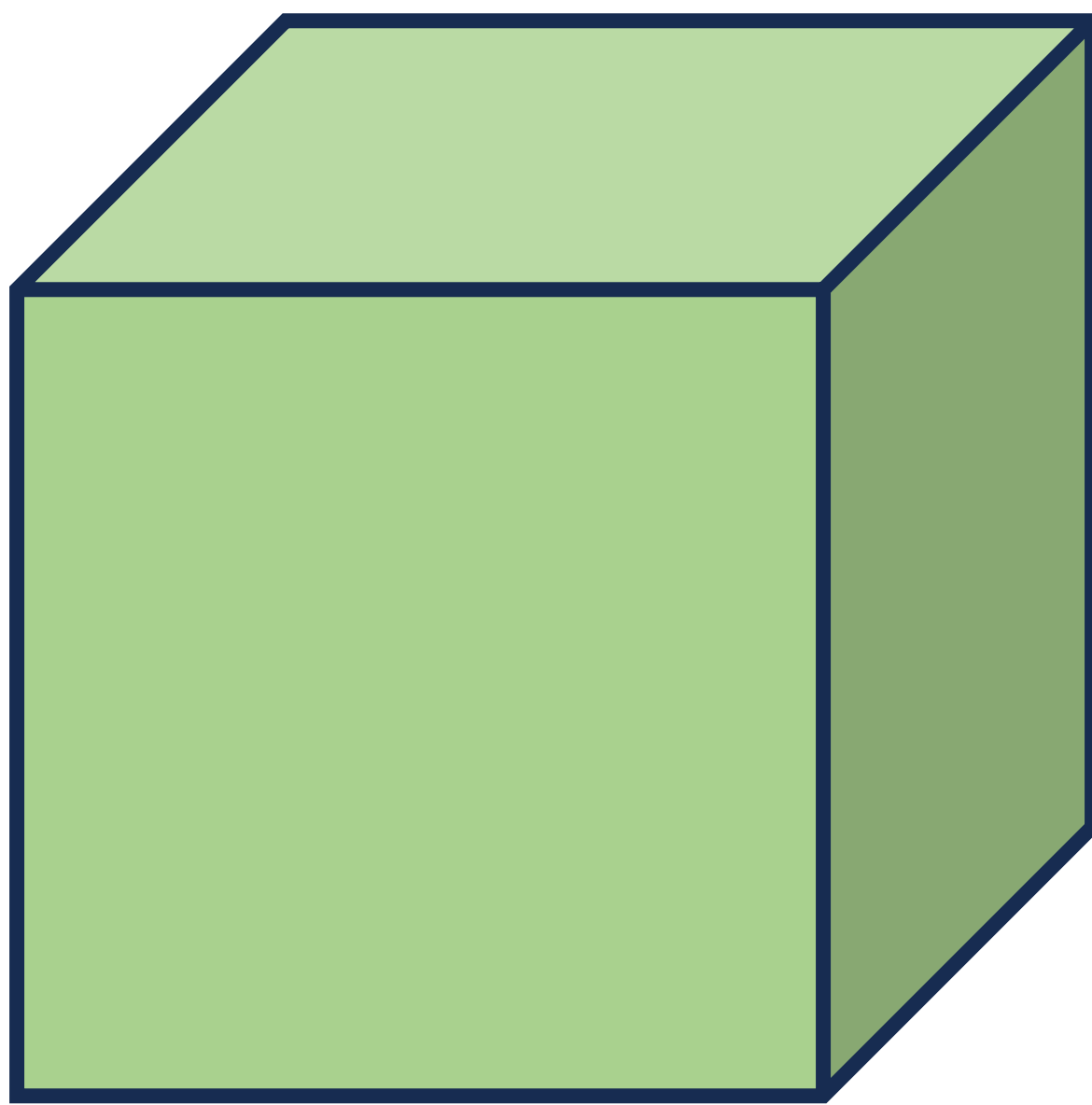
## Three dimensional Shapes

- A shape that has three dimensions is called **three dimensional shapes or 3-D shapes**.
- The three dimensions are
  - ❖ length
  - ❖ width.
  - ❖ Height
- The basic types of 3d shapes are cube, cuboid, cone, sphere, prism, cylinder, pyramid etc.

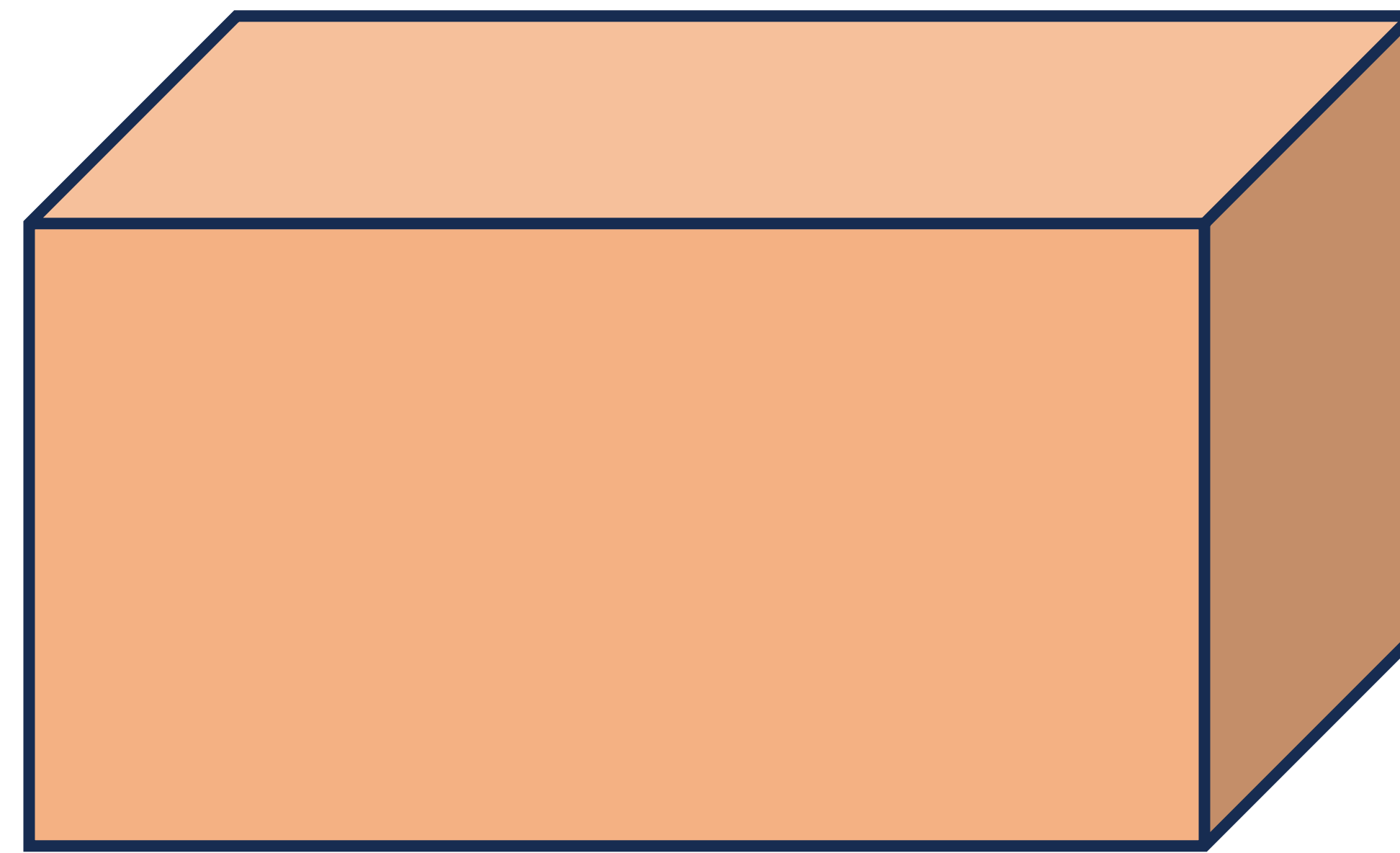




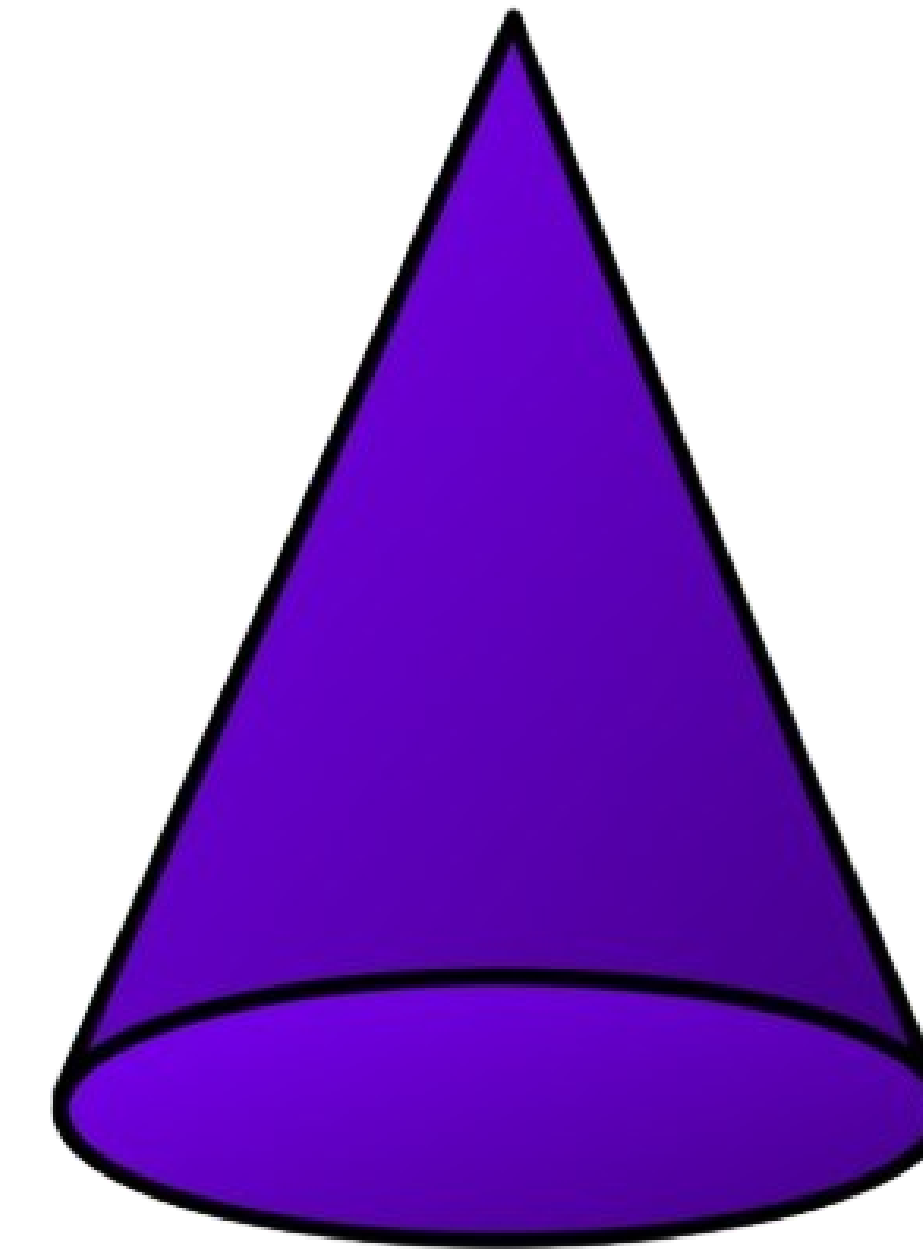
## Various three dimensional Shapes



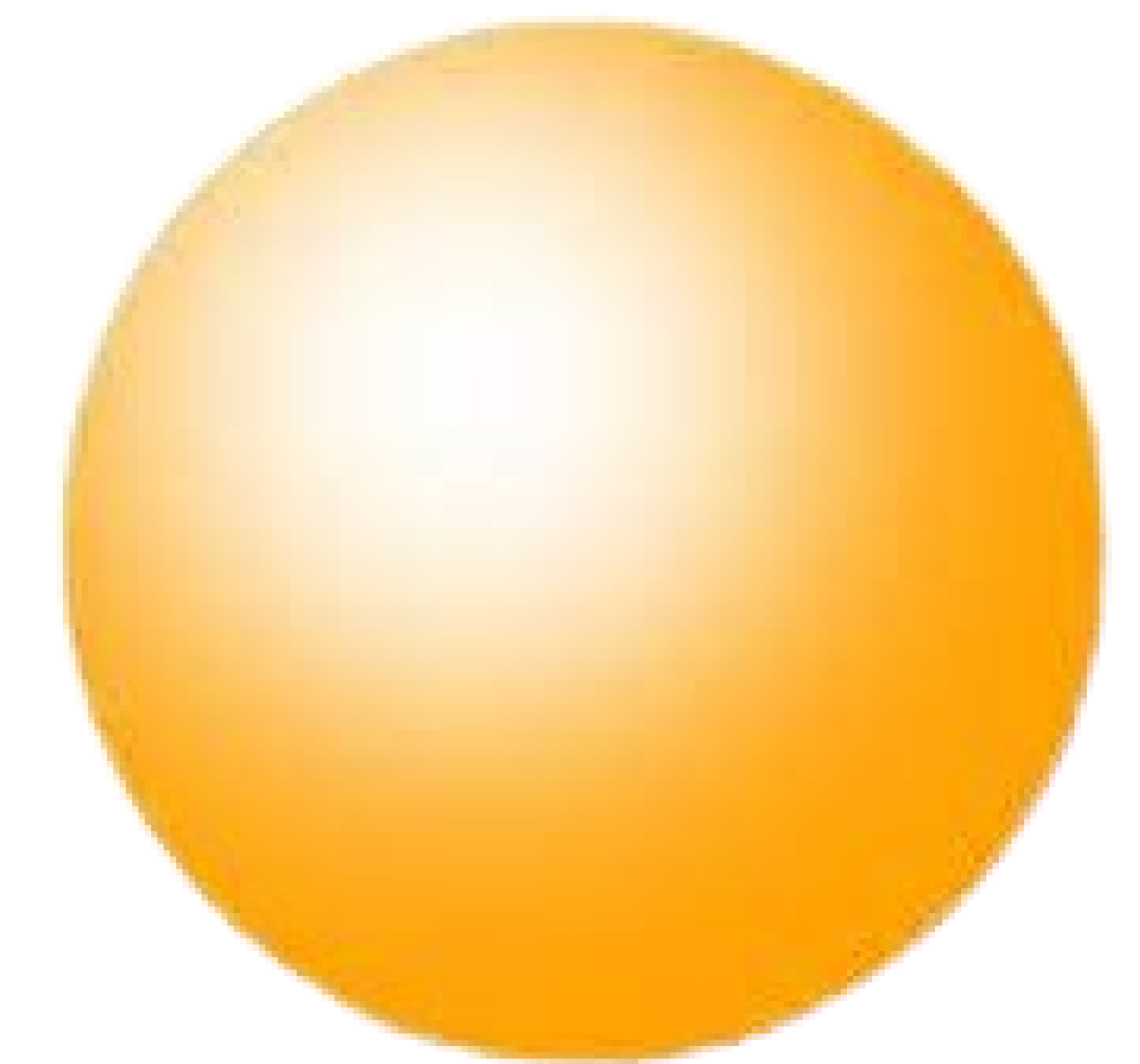
Cube



Cuboid



Cone

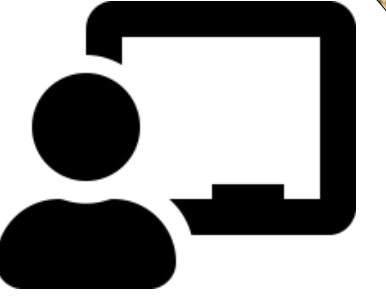


Sphere





# Properties



There are **3 properties** for 3 dimensional shapes. They are

- ❖ Faces
- ❖ Edges
- ❖ Corners or vertices

## Faces

Faces are the **surfaces on the outside** of a shape.

## Edges

Edges are the **lines where two faces meet**.

## Corners or vertices

Vertices or corner are **where two or more edges meet**.

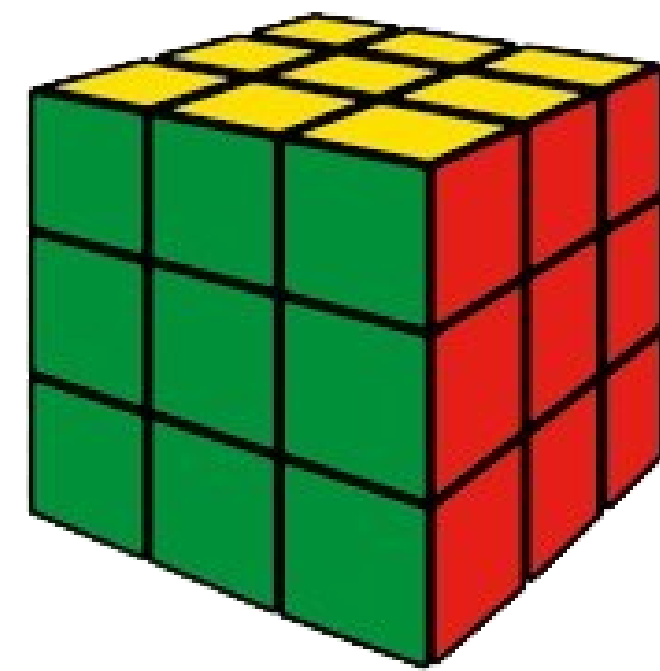




# Cube

A cube is a three-dimensional **solid** bounded by **six** square faces.

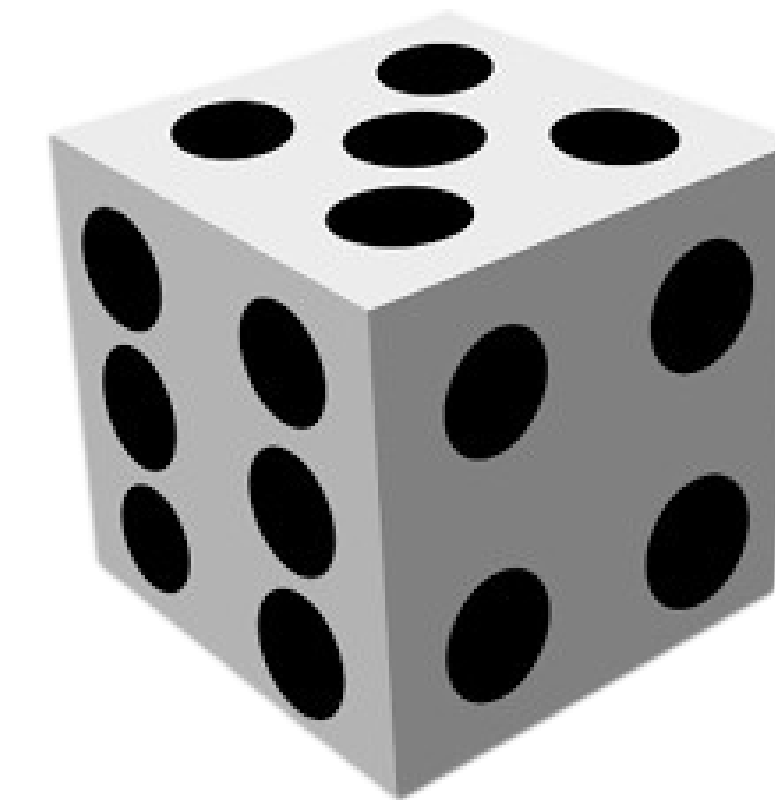
## Examples



Rubik cube



Ice cube



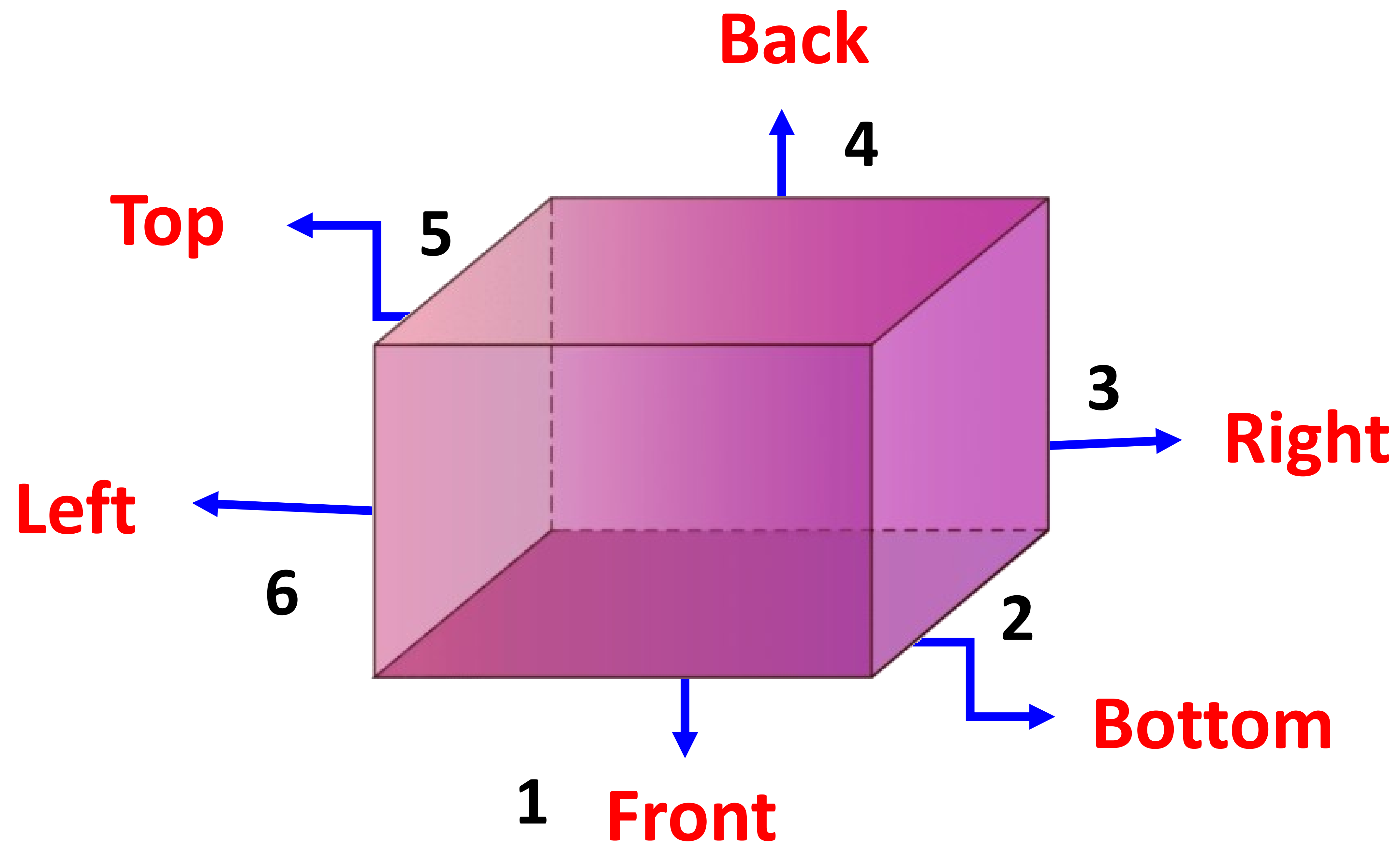
Dice



Box

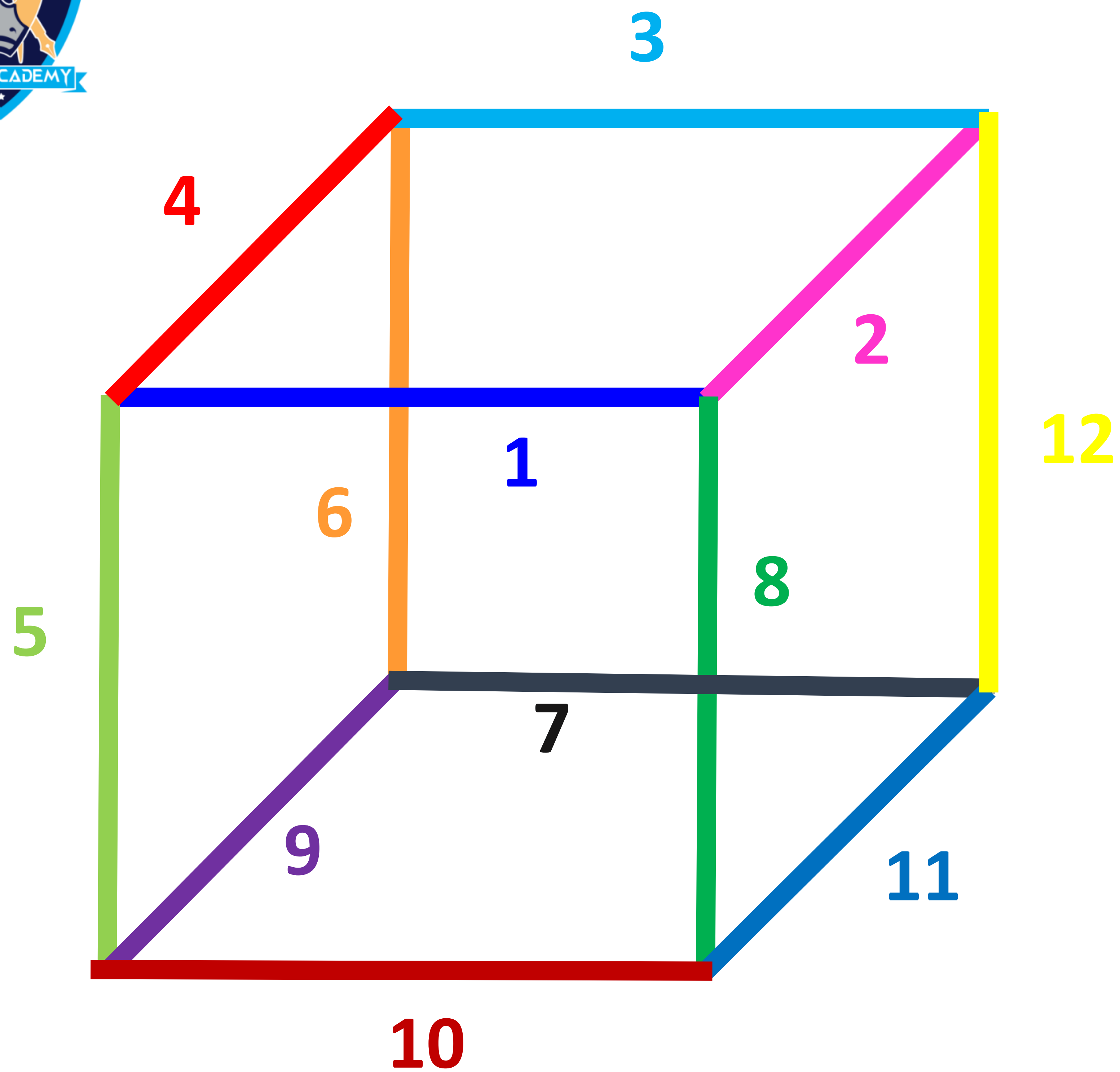


# Properties

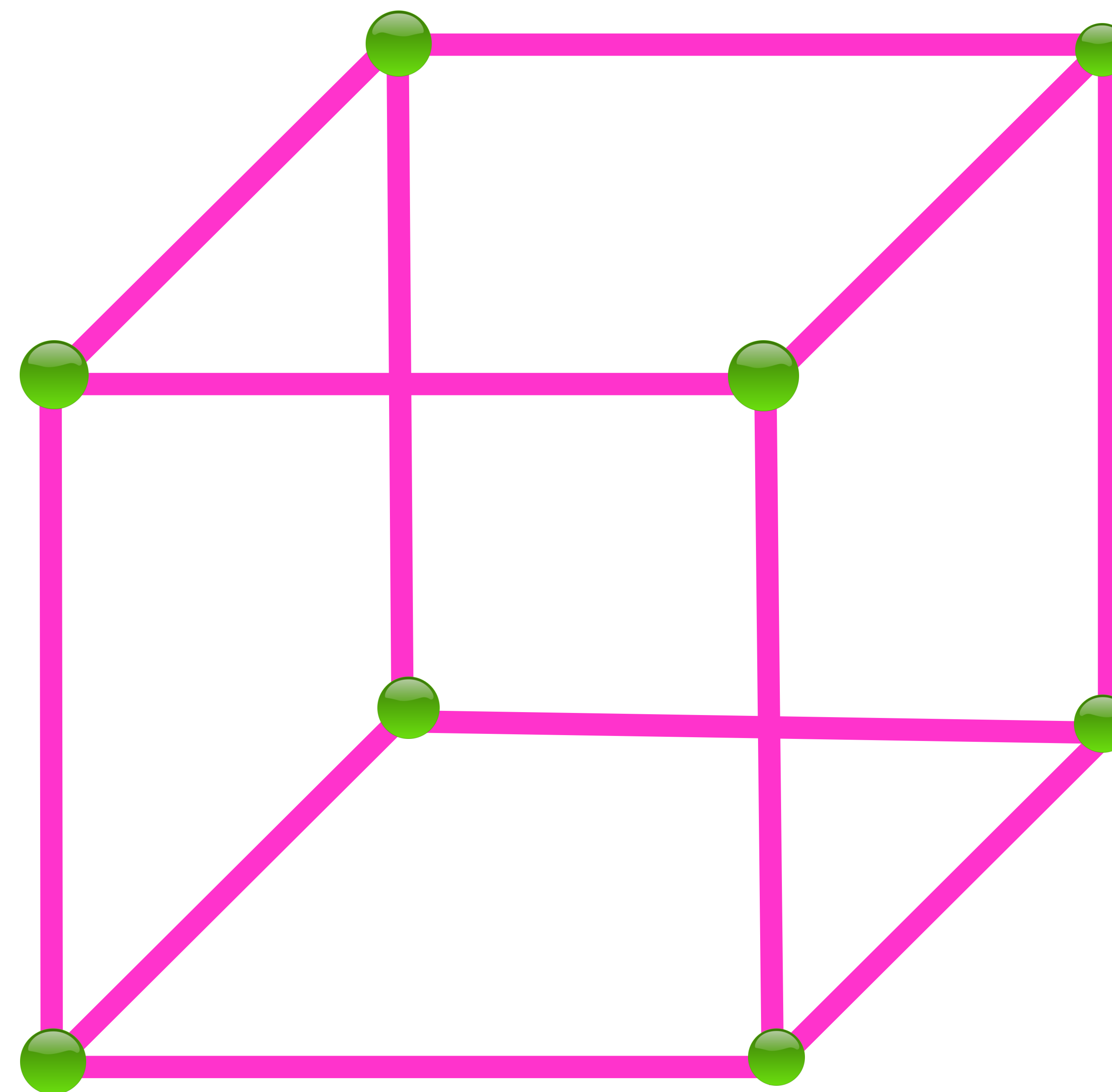


**Faces** — **6**





Edges — 12



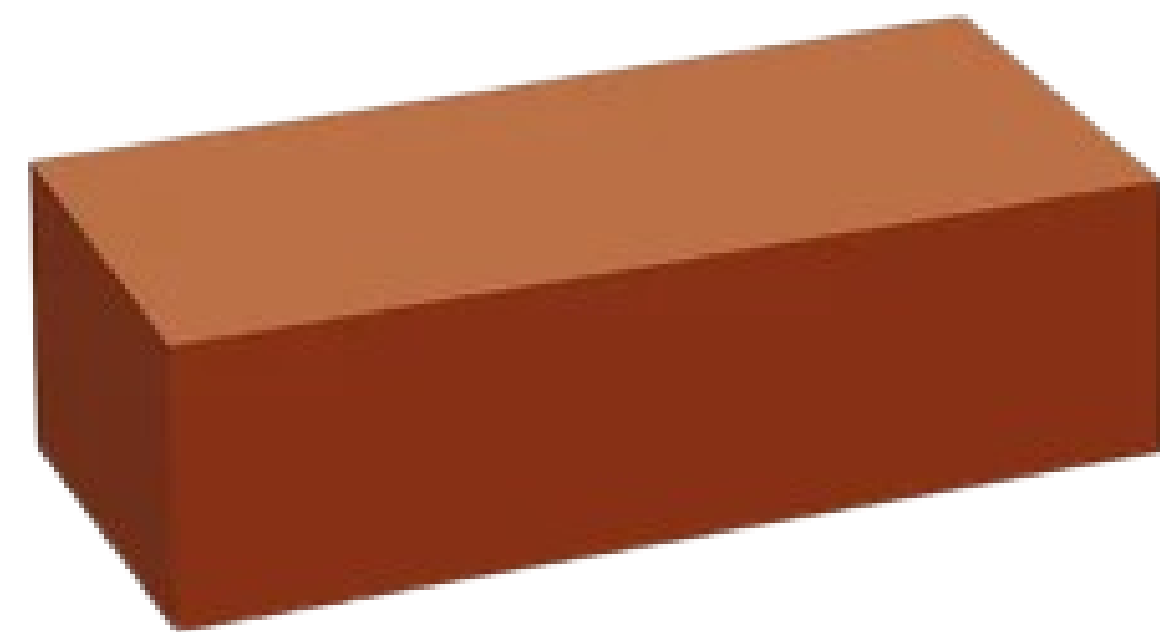
Vertices — 8



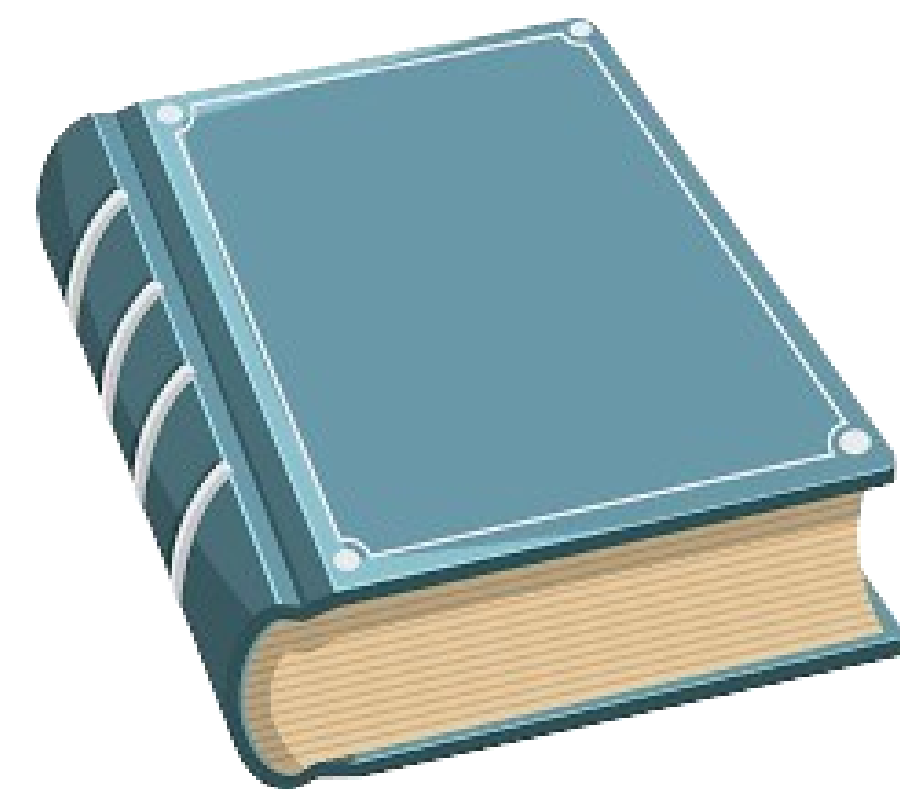
# Cuboid

Cuboid is a solid with **six rectangular faces** and looks like a book or rectangular box.

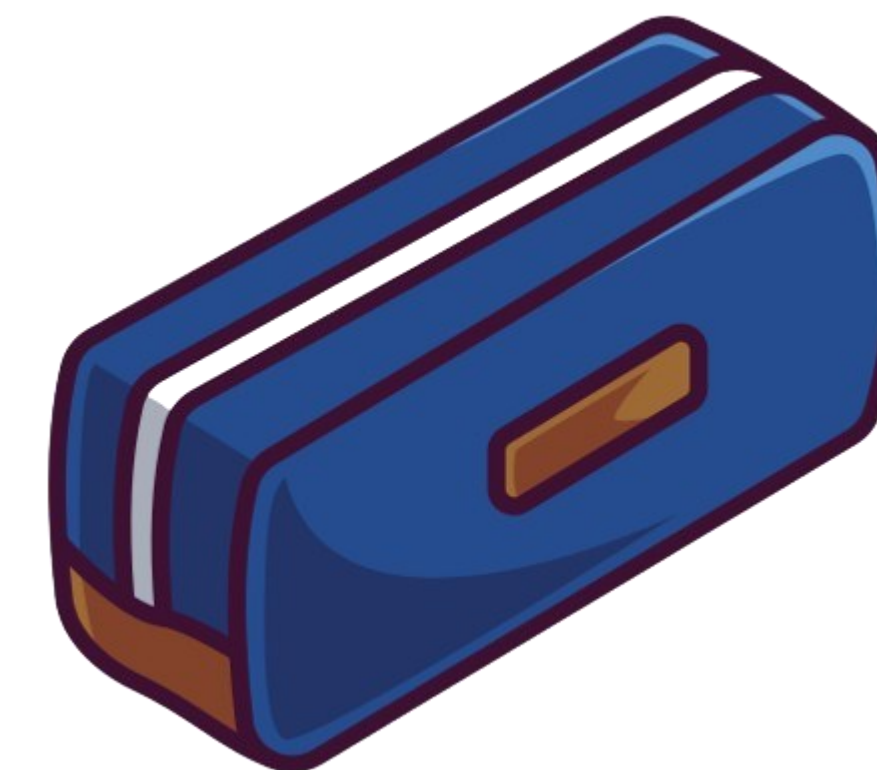
## Examples



Brick



Book



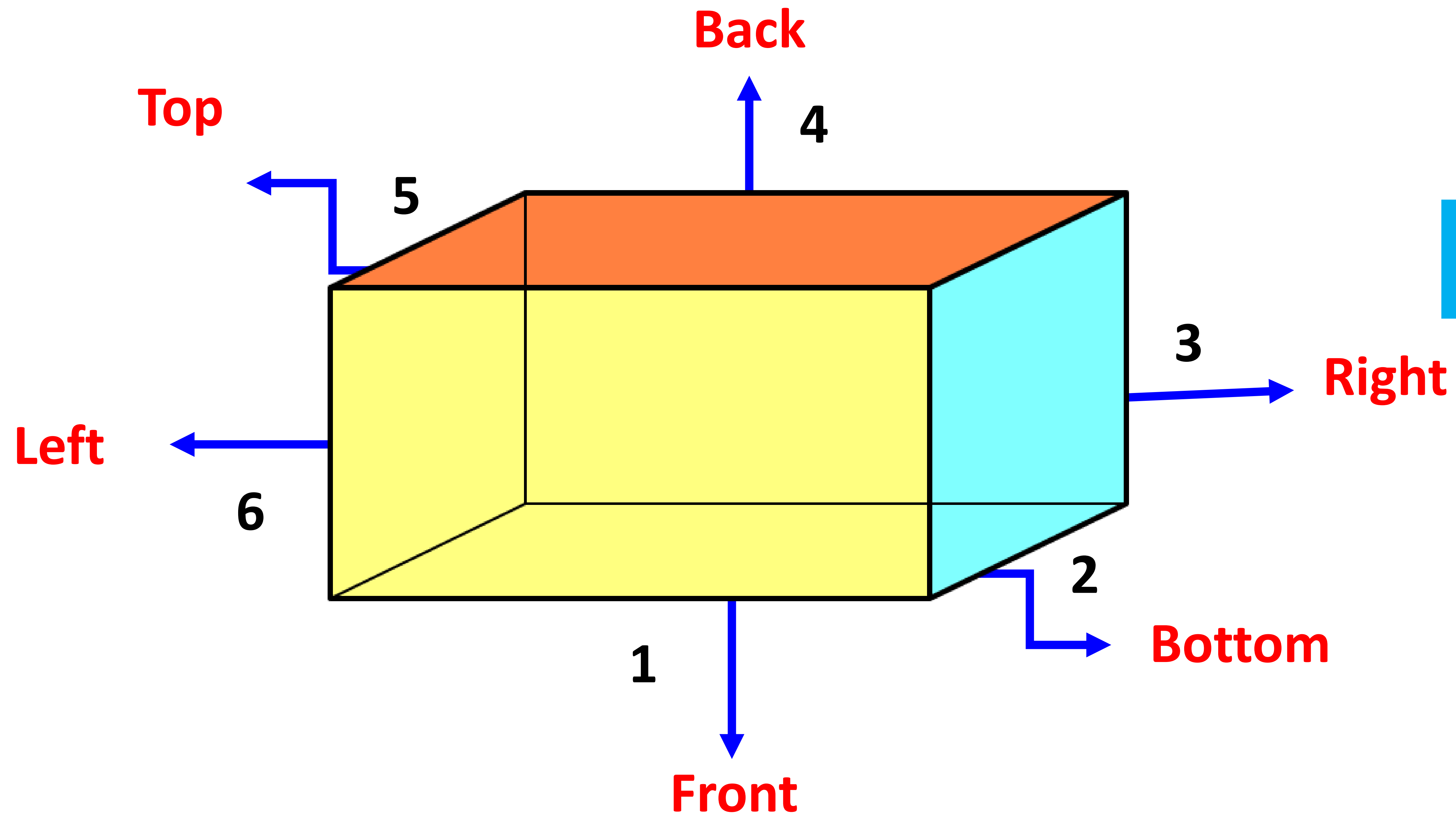
Pencil Box



Lunch Box

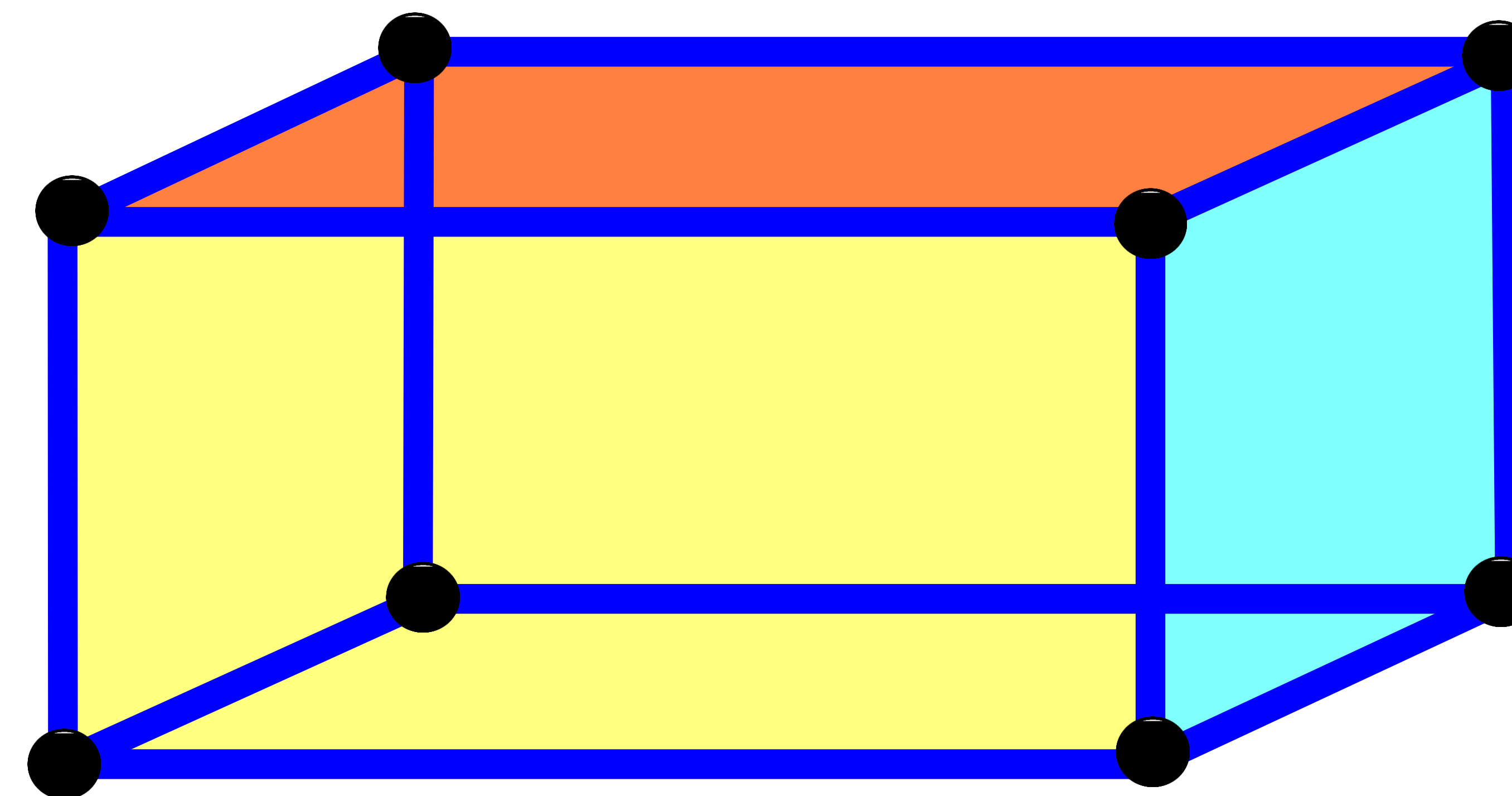
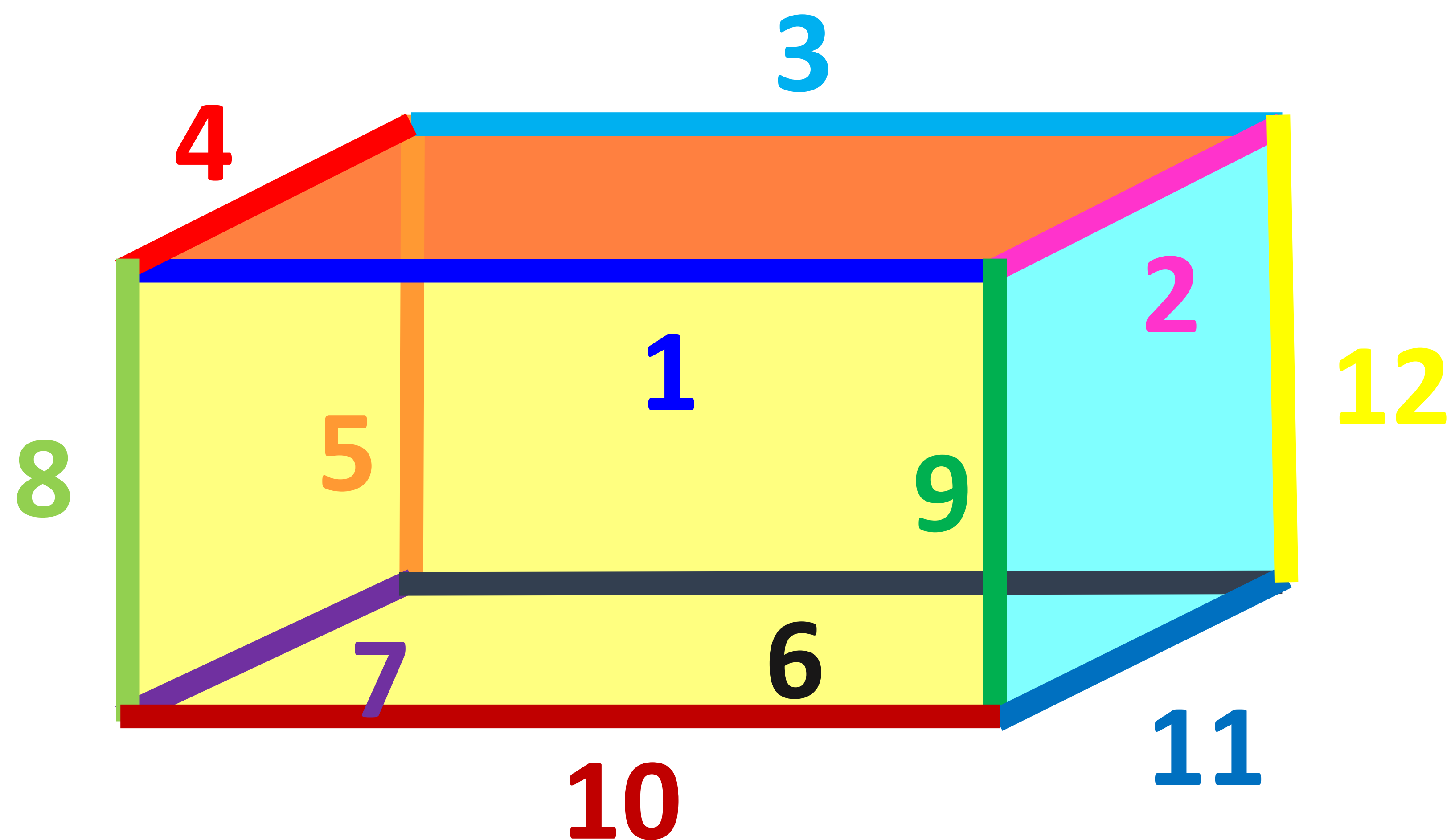


# Properties



# Faces - 6





**Edges - 12**

**Corners - 8**



# Sphere

Sphere is a shape that is round, with **no corners or edges**.

You can roll it and spin it

## Examples



Ball



Earth



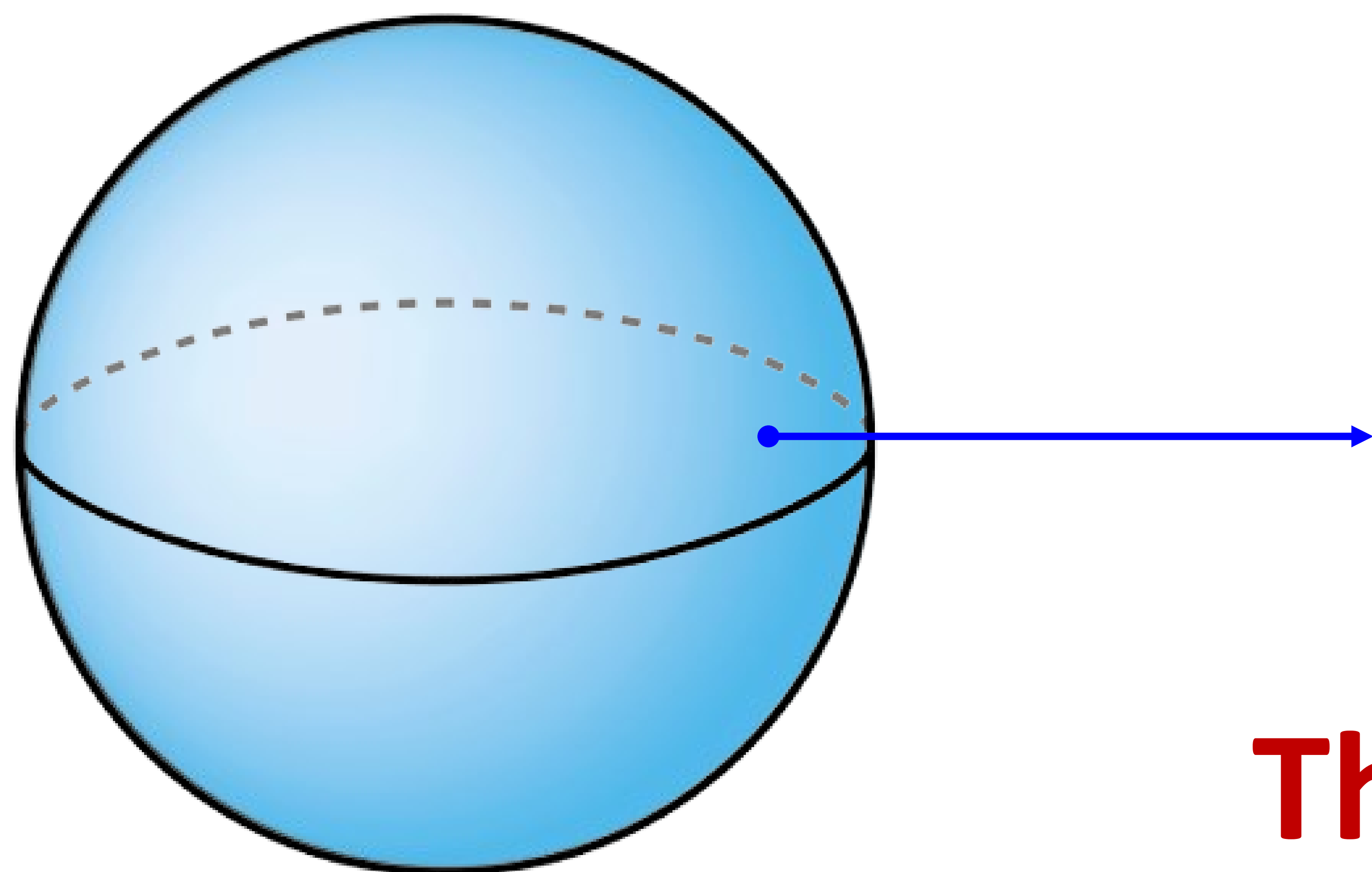
Iron ball



Marbles



## Properties



**1** Curved surface

There is **No** edges & vertices



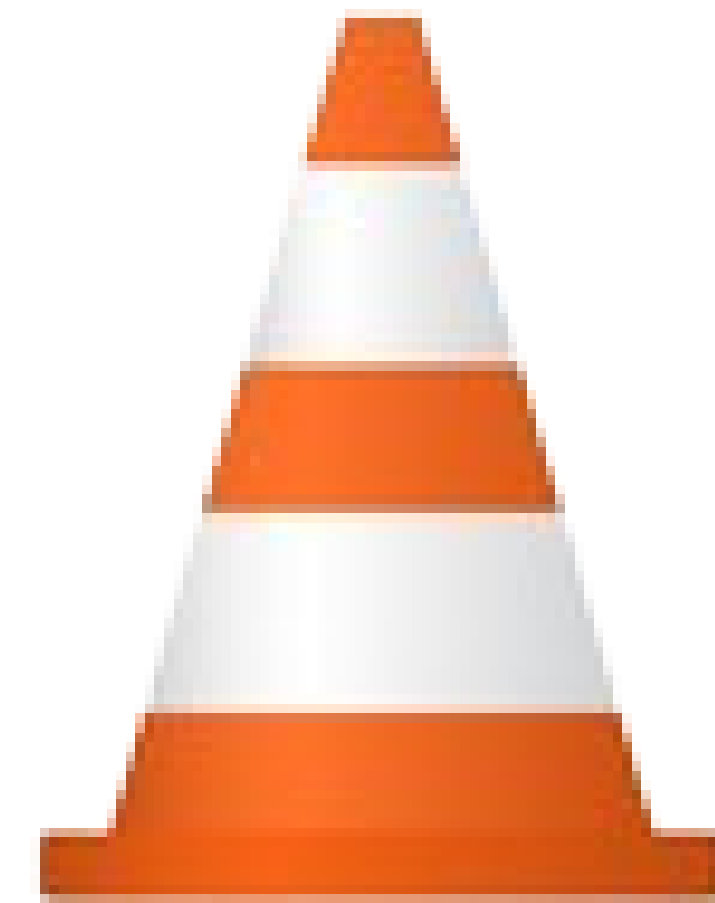
# Cone

A cone shape is a three-dimensional geometric figure that has a **curved surface**, which is pointed towards the top.

## Examples



Ice cream



Traffic cone



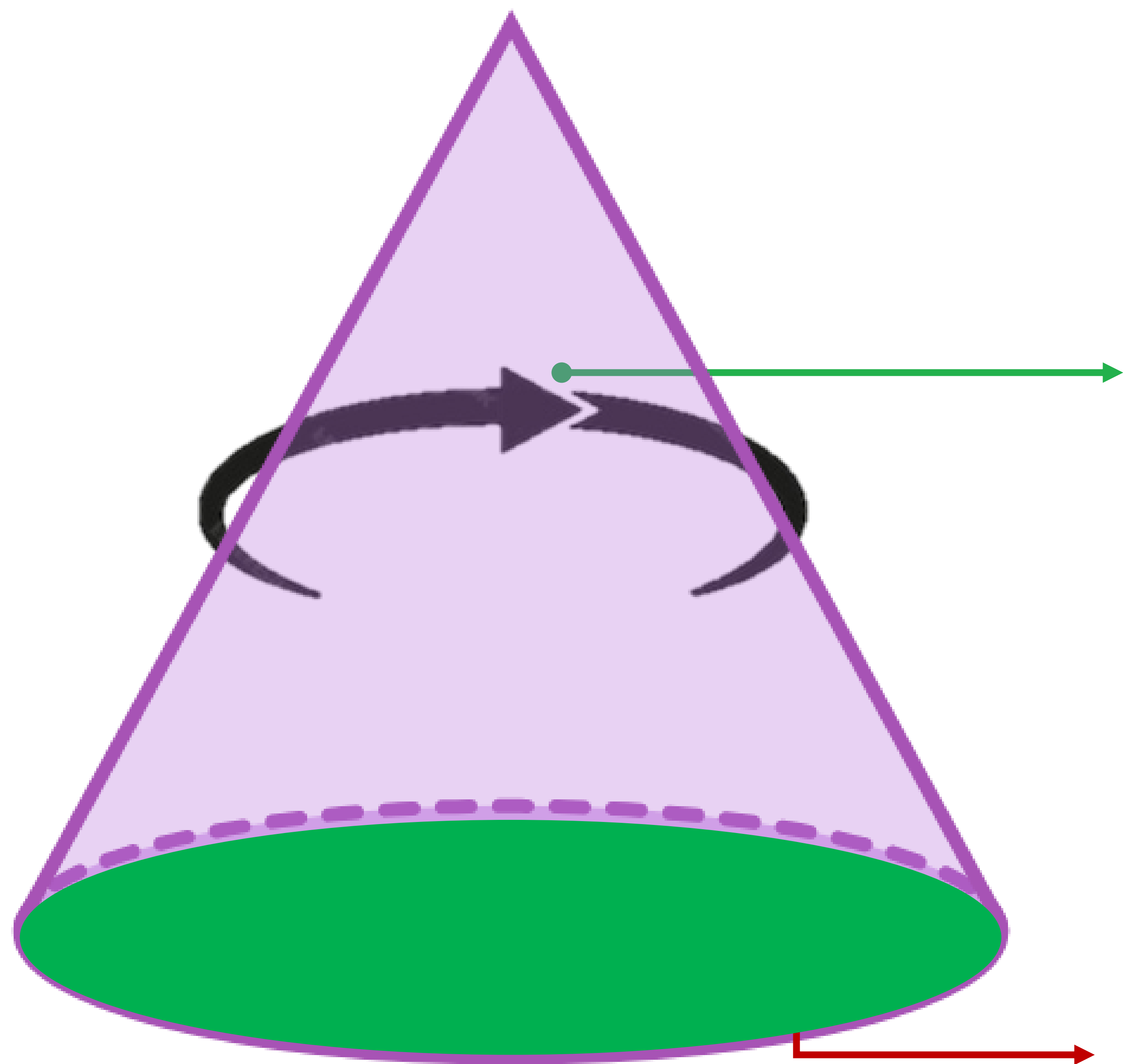
Party hat



Funnel



## Properties

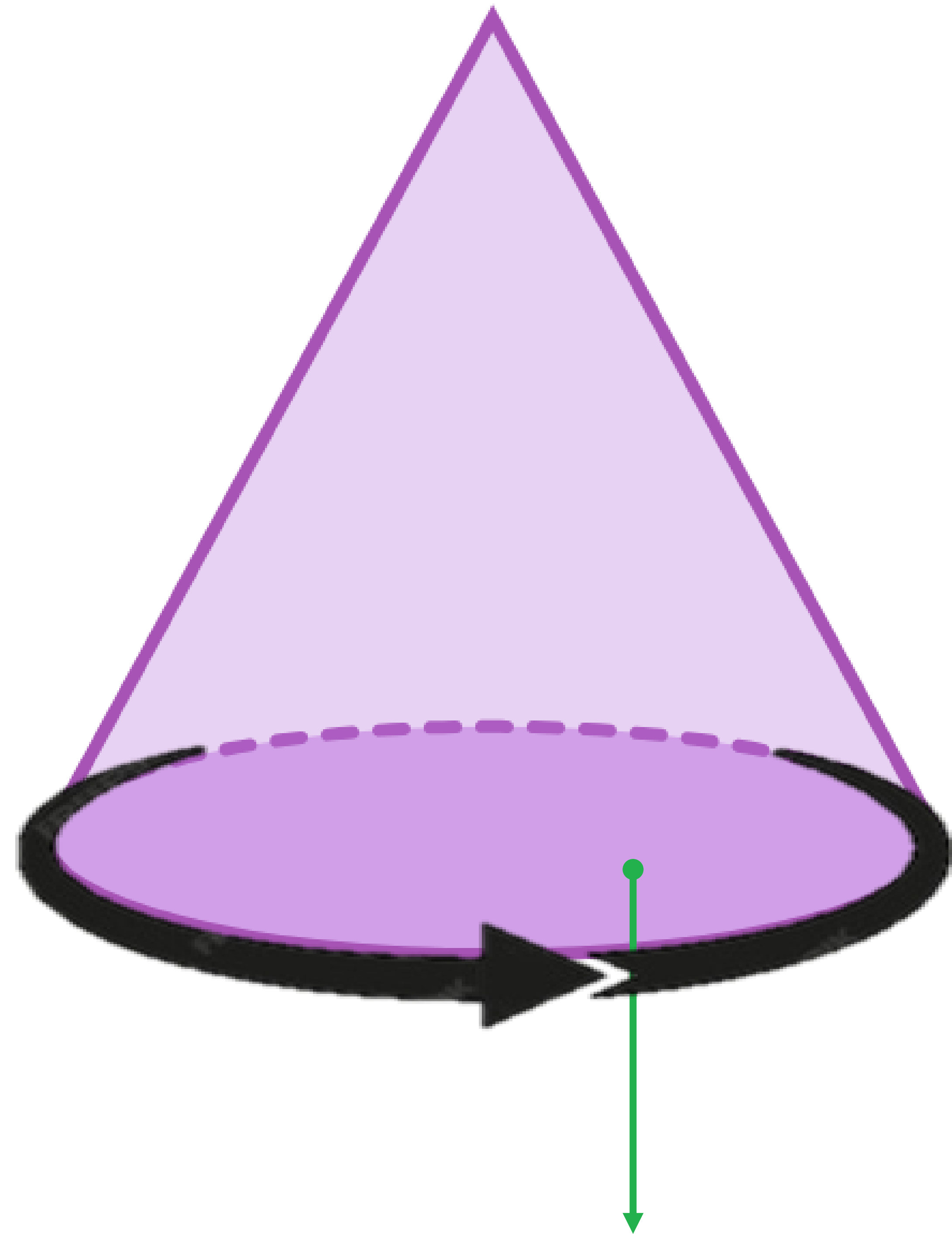


**1 Curved surface**

**1 Flat surface**



# Corner - 1



Edges - 1

