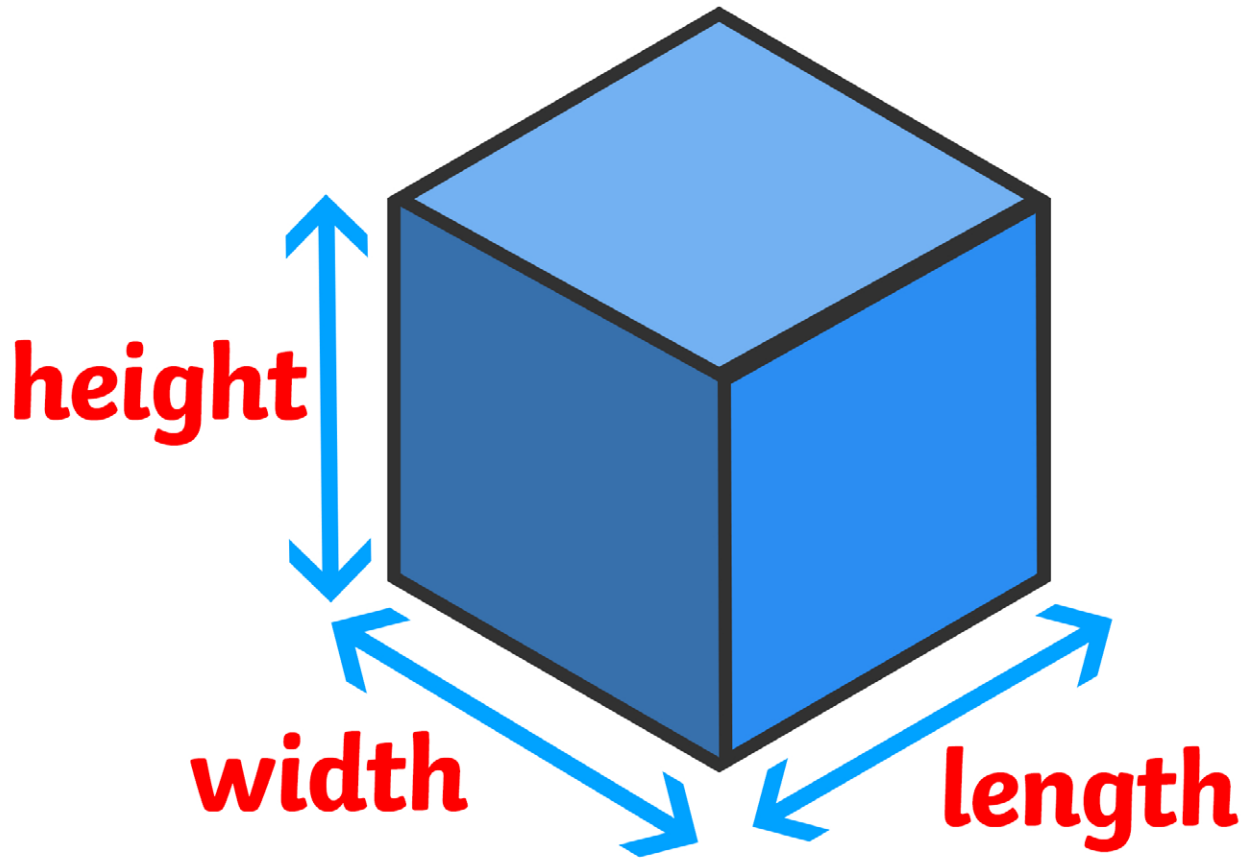


# 3D Objects

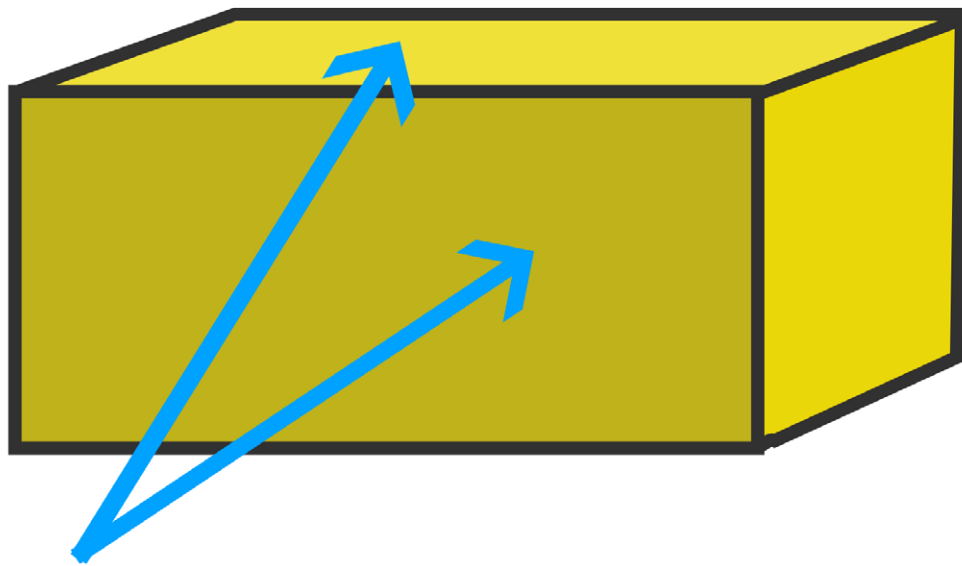


Every 3-dimensional object has three measurements.

These are **length**, **height** and **width**.

# 3D Objects

## Faces



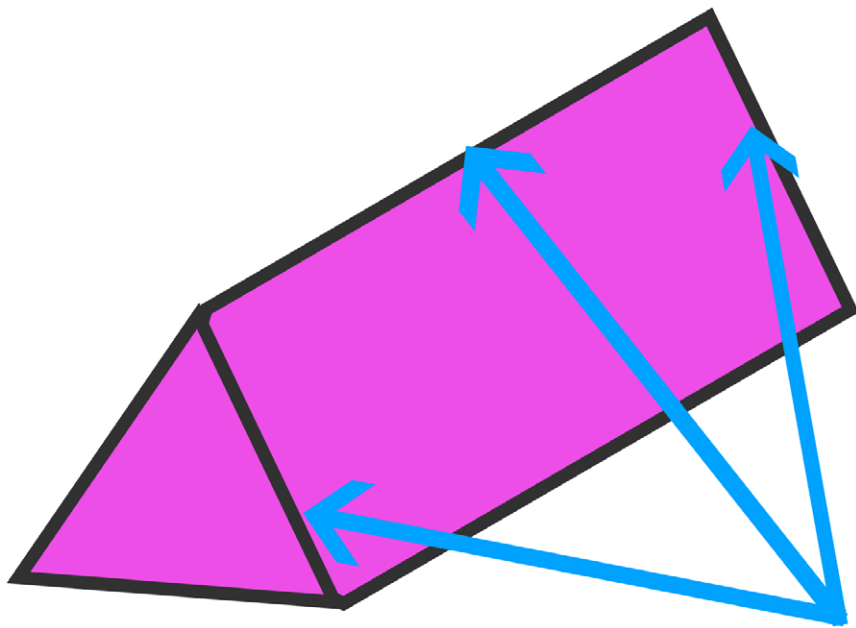
faces

Faces are the flat sides on a shape.

This cuboid has 2 square faces and 4 rectangle faces.

# 3D Objects

# Edges



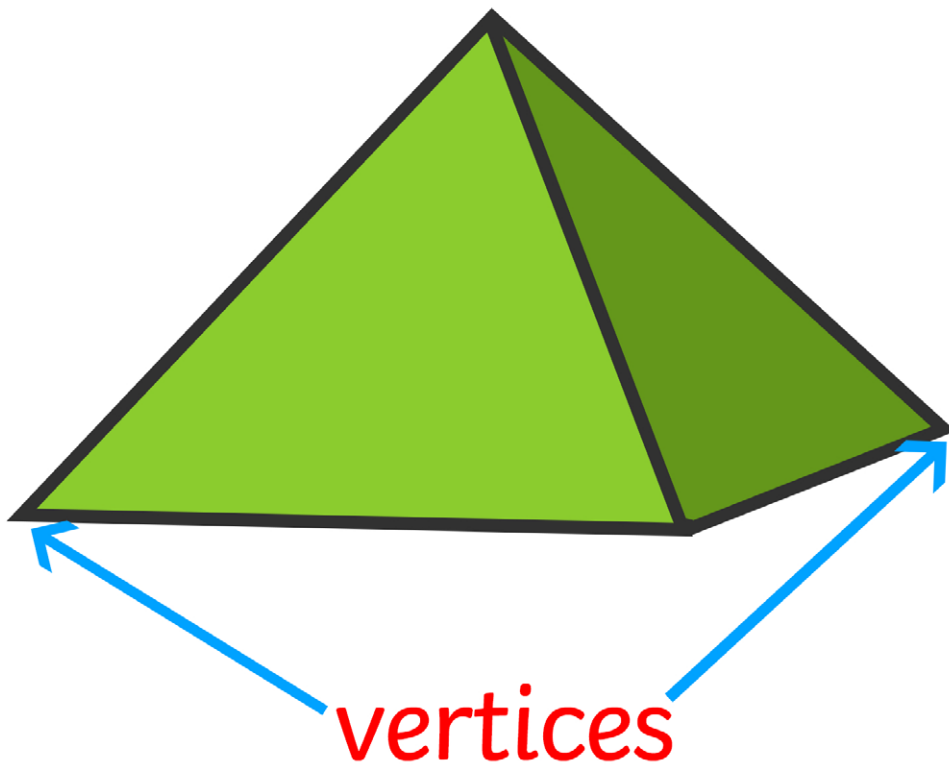
edges

Edges are the lines where two faces meet.

A triangular prism has 9 edges.

## 3D Objects

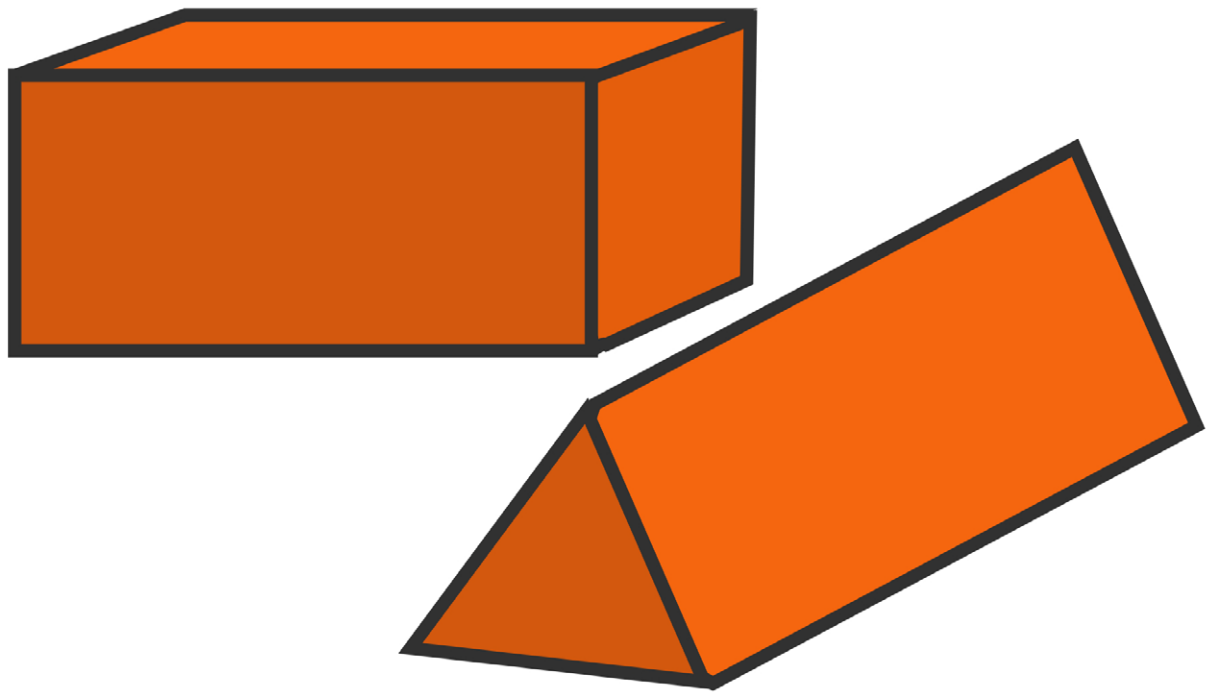
# Vertices



Vertices are the corners of a 3D object, where two or more edges meet.

## 3D Objects

# Prisms

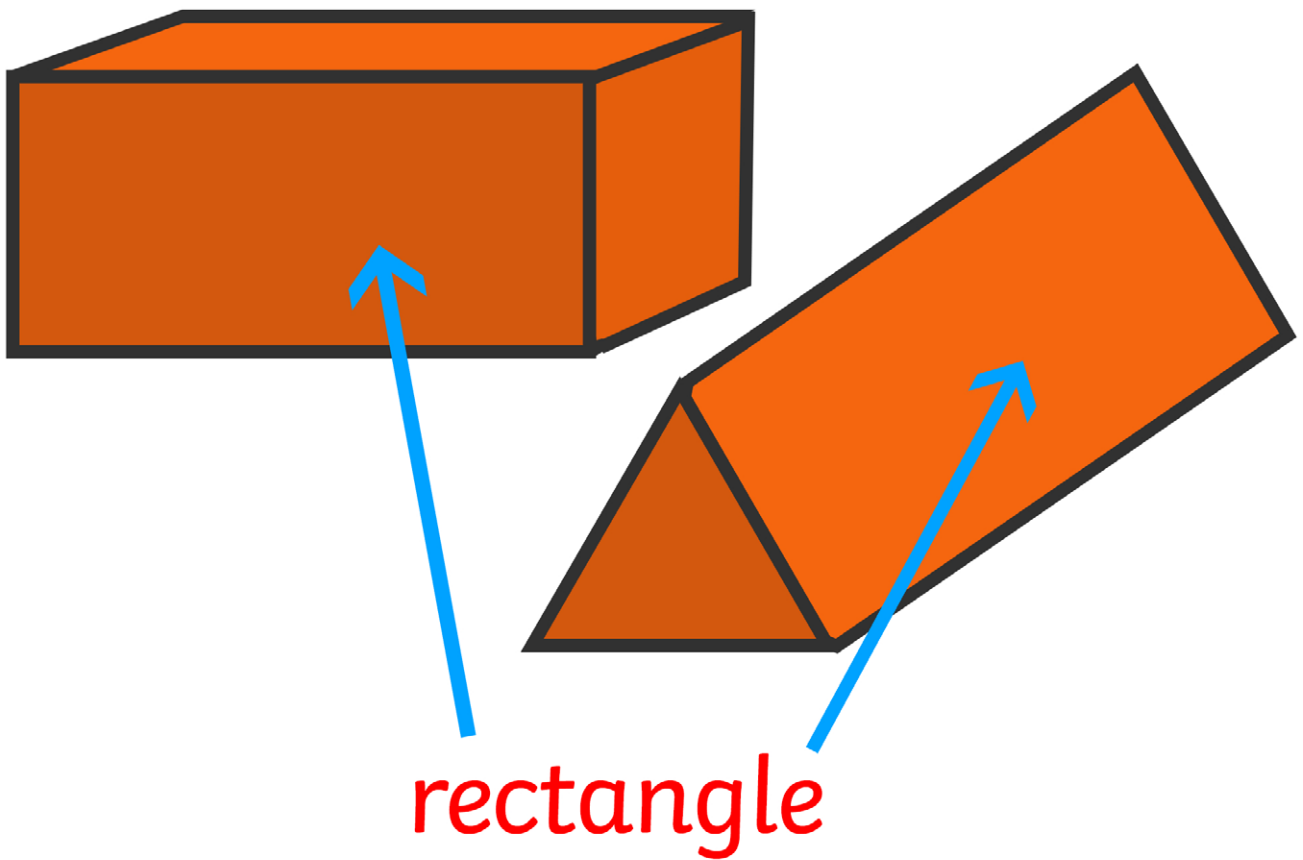


A prism always has the same shape at both ends.

If you cut the prism in half, the cross-section will be the same shape and size as both the ends.

# 3D Objects

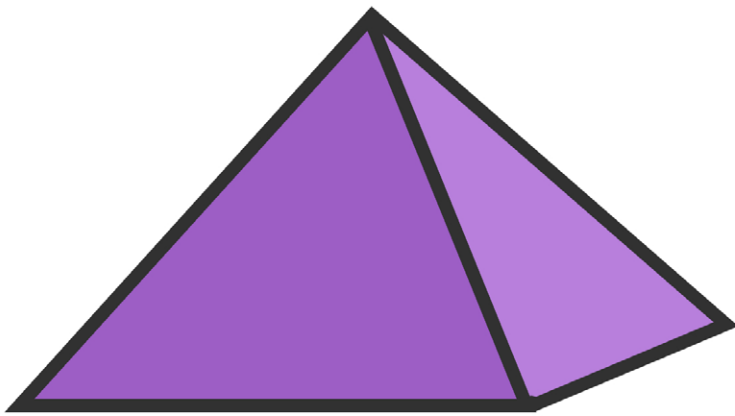
# Prisms



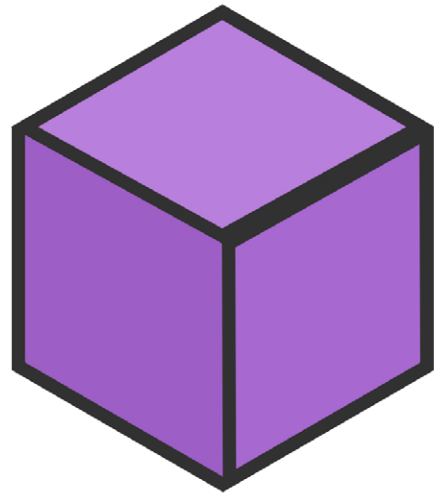
A prism always has rectangular faces on the sides.

## 3D Objects

# Polyhedron



polyhedron



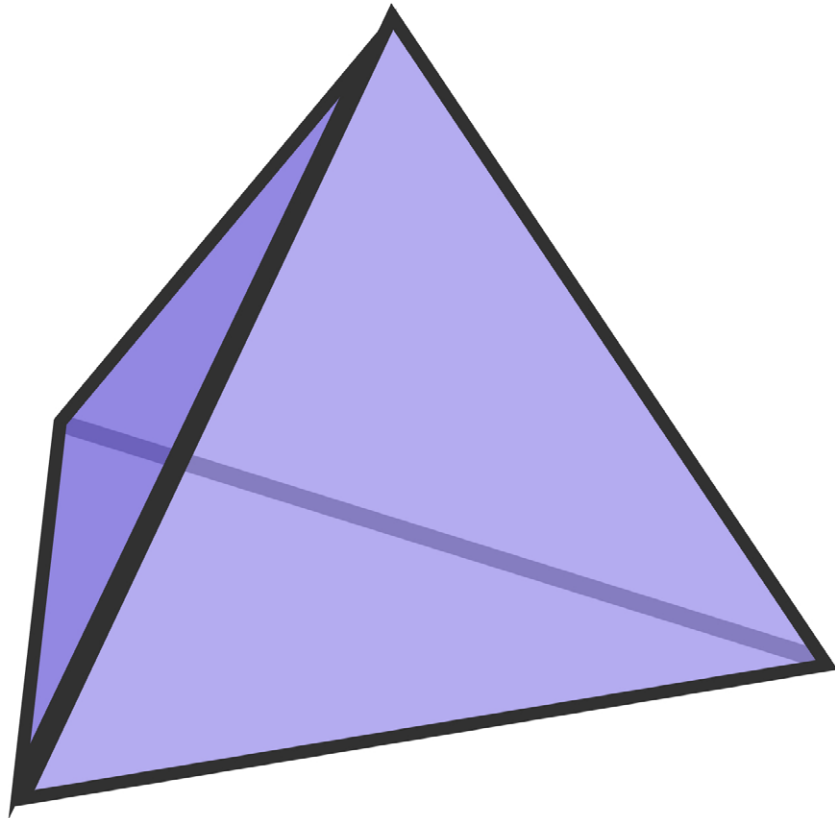
regular  
polyhedron

A polyhedron is a 3D object that has flat faces and straight edges.

A regular polyhedron is a 3D object with all of its faces the same size and shape.

## 3D Objects

# Tetrahedron



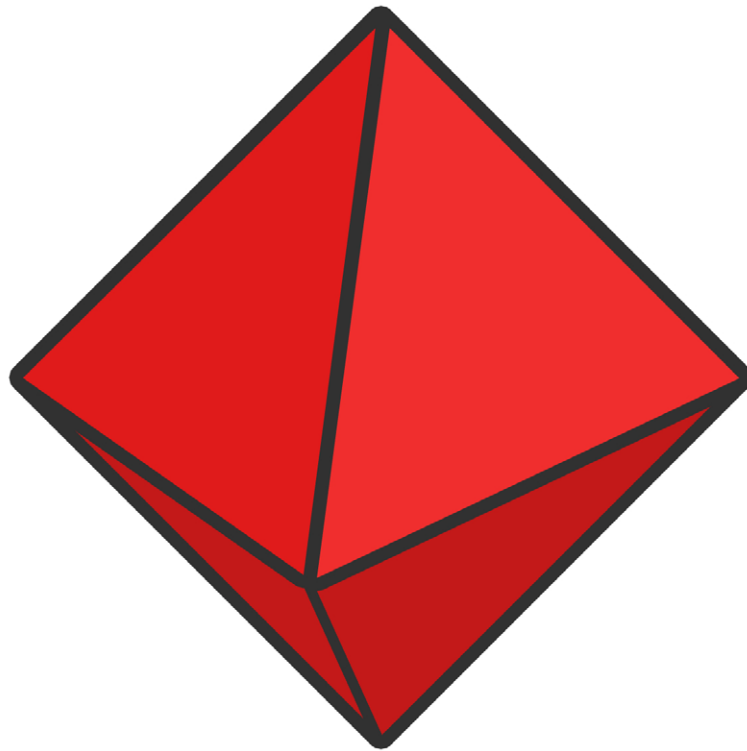
A tetrahedron is a regular polyhedron.

Its 4 faces are all **equilateral** triangles.



## 3D Objects

# Octahedron

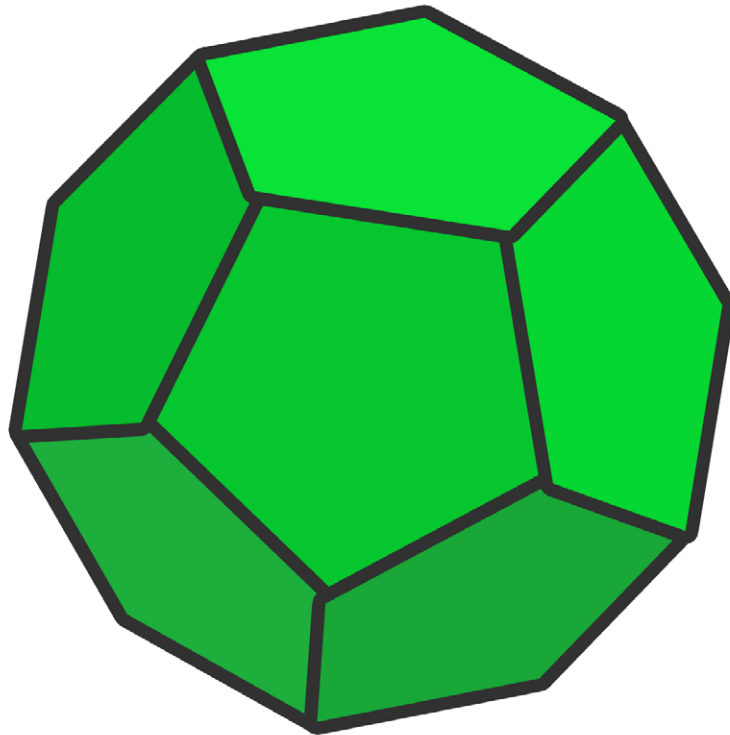


An octahedron is a regular polyhedron.

Its 8 faces are all **equilateral** triangles.

## 3D Objects

# Dodecahedron

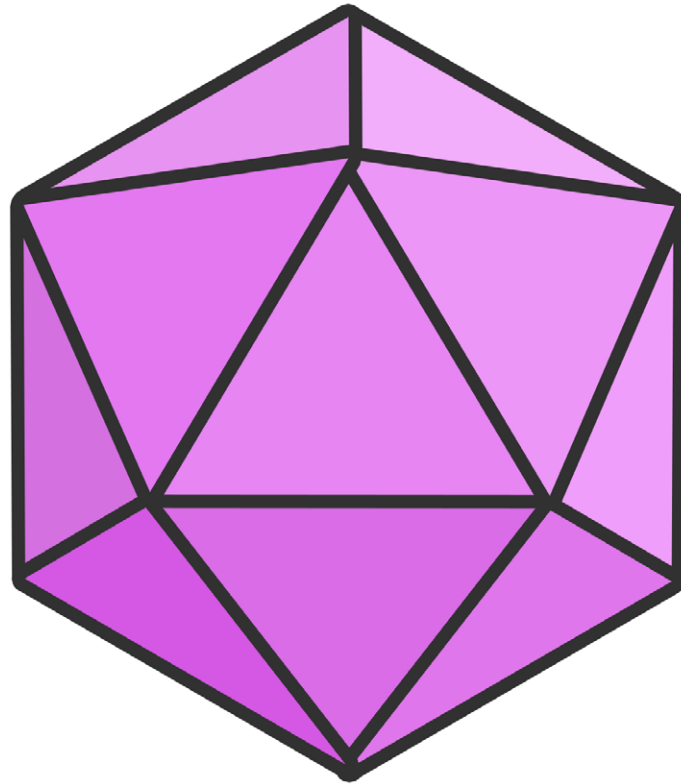


A dodecahedron is a regular polyhedron.

Its 12 faces are all regular pentagons.

## 3D Objects

# Icosahedron

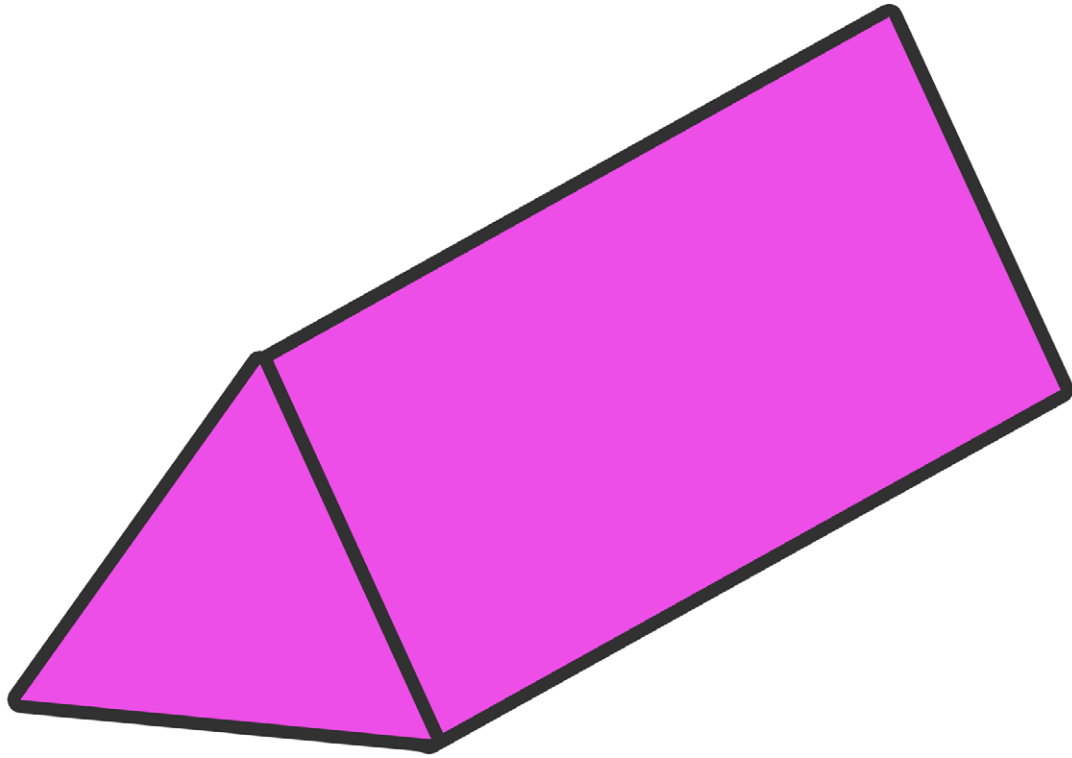


An icosahedron is a regular polyhedron.

Its 20 faces are all **equilateral** triangles.

# 3D Objects

## Quiz



What type of object is this?

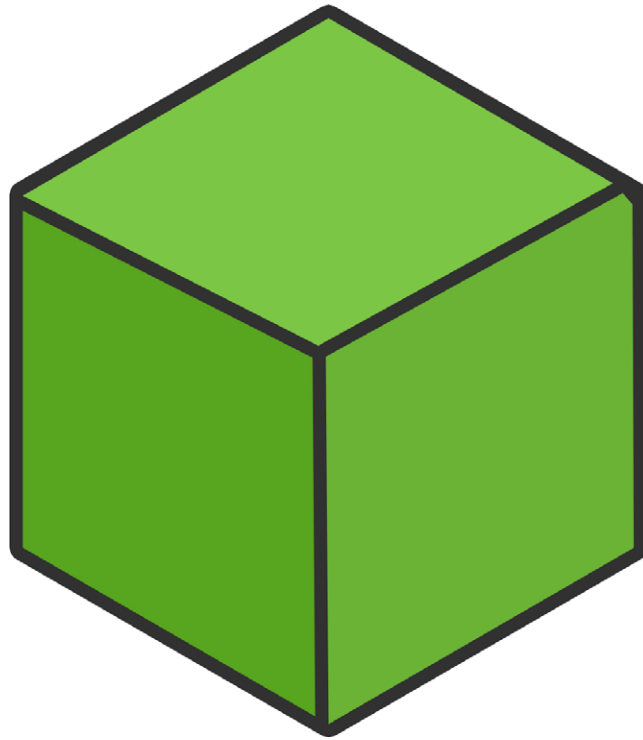
Which 2D shape is at each end?

How many faces does it have?

How many edges does it have?

# 3D Objects

## Quiz



What type of object is this?

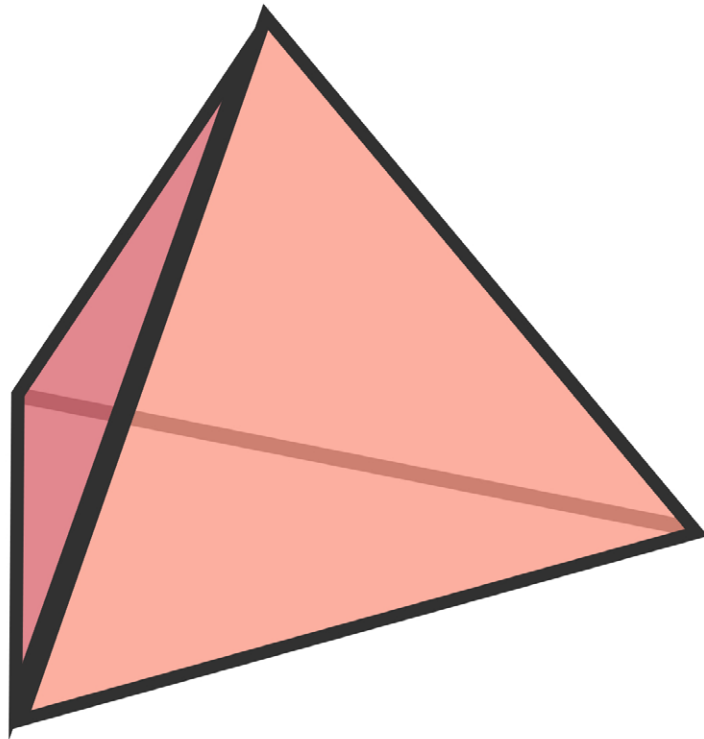
Which 2D shape makes up its faces?

How many faces does it have?

How many vertices does it have?

# 3D Objects

## Quiz



What type of polyhedron is this?

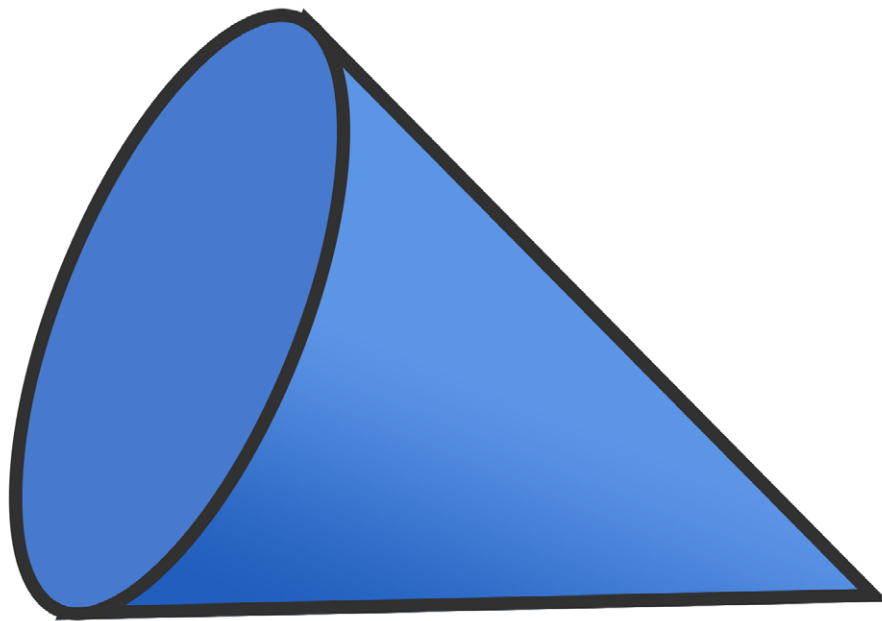
Which 2D shape makes up  
its faces?

How many faces does it have?

How many vertices does it have?

# 3D Objects

## Quiz



What is the name of this object?

Which 2D shape is at its end?

How many faces does it have?

How many edges does it have?

# 3D Objects

## Quiz



What is the name of this object?

Which 2D shape is at its ends?

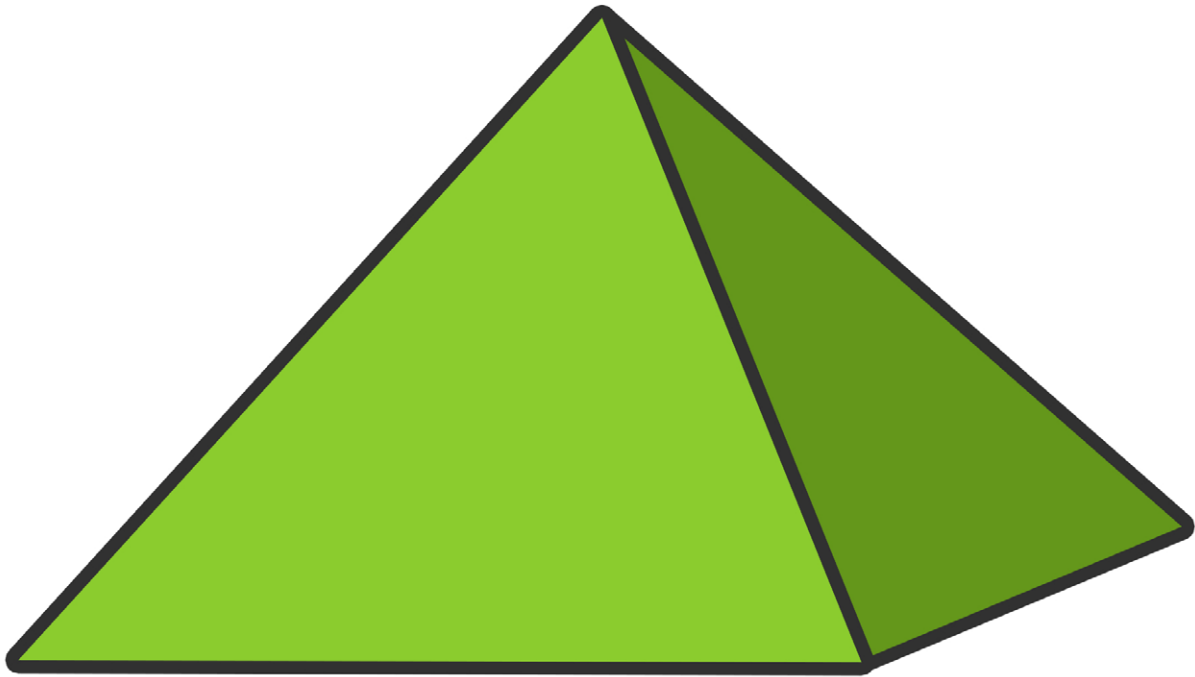
How many vertices does it have?

How many edges does it have?



# 3D Objects

## Quiz



What type of object is this?

How many faces does it have?

How many vertices does it have?

How many edges does it have?

# 3D Objects

## Quiz



What type of object is this?

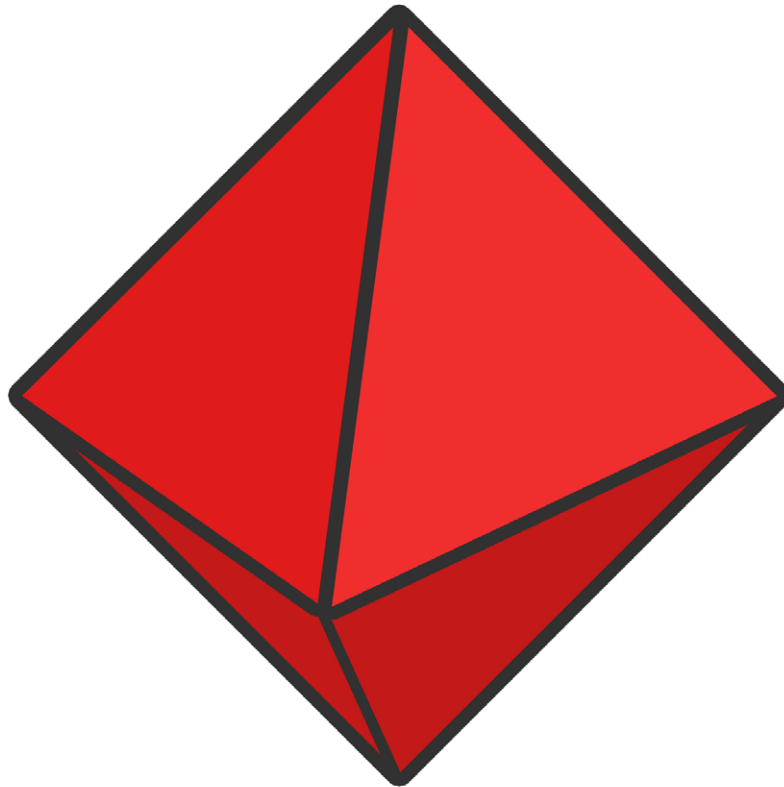
How many faces does it have?

How many vertices does it have?

How many edges does it have?

# 3D Objects

## Quiz



What type of polyhedron is this?

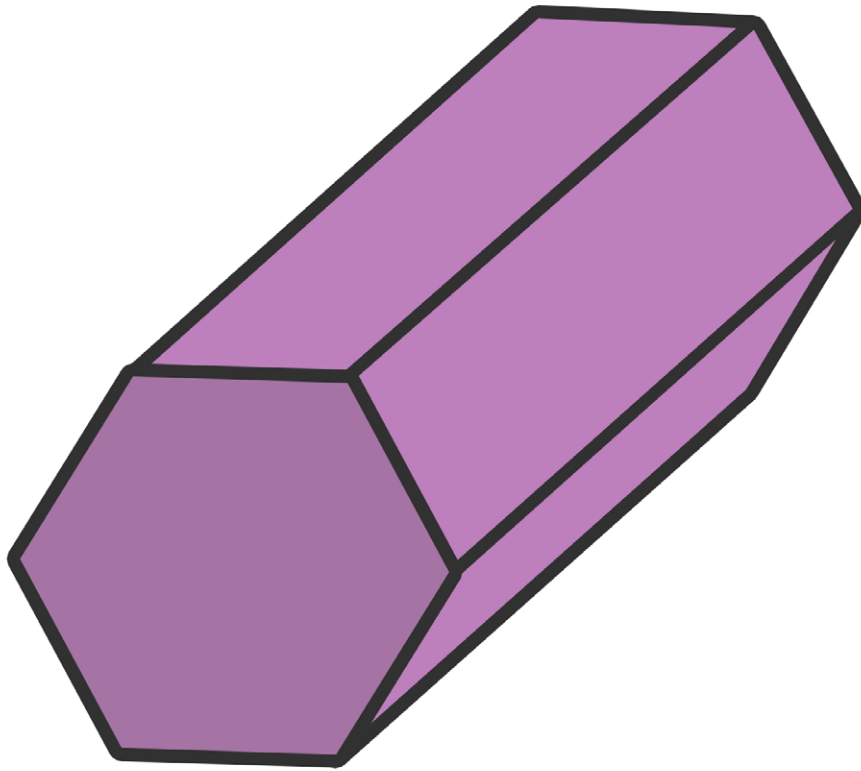
Which 2D shape makes up  
its faces?

How many vertices does it have?

How many edges does it have?

# 3D Objects

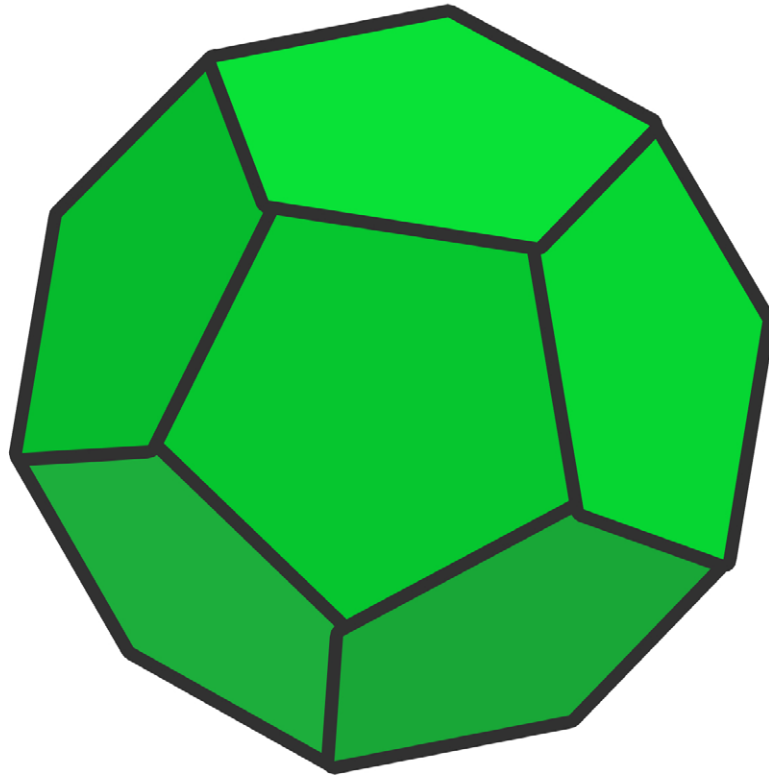
## Quiz



What type of object is this?  
Which 2D shape is at its ends?  
How many faces does it have?  
How many edges does it have?

# 3D Objects

## Quiz



What type of object is this?

Which 2D shape makes up  
the faces?

How many faces does it have?