

## The main characteristics of pyramids:

- 1 base (polygon)
- faces are all triangular
- all the faces meet at one vertex on top

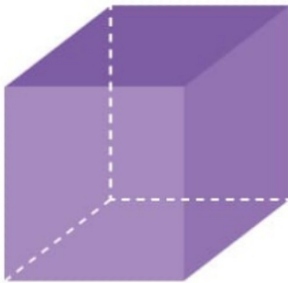
## The main characteristics of prisms

2 bases (polygons) identical bases (same shape and same size)  
all other faces are rectangular

## Look Back

Student's book p. 84

What 3D shape is shown below? Talk to your partner about how you identify the 3D shape.



It is a cube.

6 square faces  
8 vertices  
12 edges

## Thinking Cap



Izzy paints the faces of the shape above and presses it on a paper. What shape will she get on the paper? What do you observe? Paint a similar 3D shape around you to find out.

square



A cube has square faces.

A cuboid has rectangular faces

A pyramid has triangular faces

## Let's Learn

Student's book p. 84

- a Anne has some toy blocks. Each block has the shape of a cube.

A cube has six **flat faces**.

The shape of each face is a square.

All the edges of a cube are equal in length.



Student's book p. 85

- b Zamir has a box which has the shape of a cuboid.

The cuboid has 6 flat faces.

Two of the faces have the shape of a square.

The other four faces have the shape of a rectangle



6 faces  
8 vertices  
12 edges

same number of faces  
and edges and vertices

A cuboid can also have six rectangular faces. What do you think it will look like?

tissue box

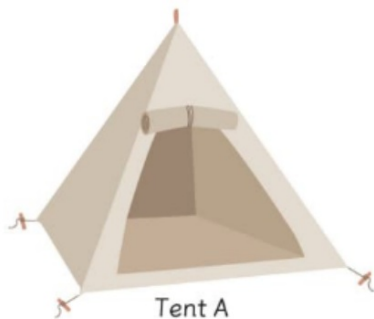


How are cuboids similar to a cube? How are they different from a cube?

different in size, a cube doesn't have rectangular faces only square faces

## Student's book p. 85

- c There are two types of tents at a campsite.  
Tent A has the shape of a pyramid.



Tent A has 5 flat faces.

It has 4 triangular faces.

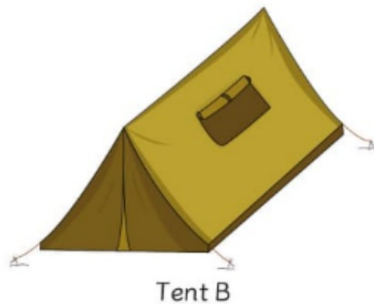
The shape of its base is a square.

1 square base  
4 triangular faces  
5 vertices  
8 edges

The face at the bottom of a 3D shape is called the base.



Tent B has the shape of a prism.



It has 5 flat faces.

Two of the faces have the shape of a triangle.

The other three faces have the shape of a rectangle.

both have triangles

How are Tents A and B similar?  
How are they different?



tent A is a pyramid      tent B is a prism

5 faces  
6 vertices  
9 edges

## Let's Practise

I Name the shape of the shaded faces in Figures A and B.

a

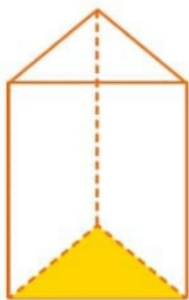


Figure A

triangular based prism

b

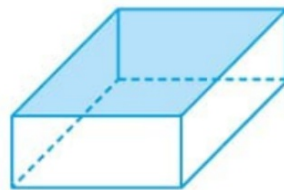


Figure B

cuboid  
or  
rectangular prism

2 Look at the pyramids below.



Figure C

4 flat faces

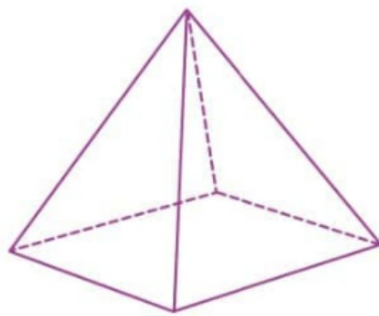


Figure D

5 flat faces



Figure E

6 flat faces

a How many flat faces does each pyramid have?



b What is the same and what is different among the pyramids?

Difference:

They have different shapes of bases.

Similarity:

They all have triangular faces that meet at one vertex.