

3 cubes
5 cuboids
2 cylinders



How many faces and edges does each 3D shape have?

cube - 6 faces and 12 edges,

cuboid - 6 faces and 12 edges,

cylinder - 2 flat faces, 1 curved face and 2 edges.

Thinking Cap



Look at these 3D shapes above.
What is the same and what is different?
Find the same 3D shapes around you to help you.



same

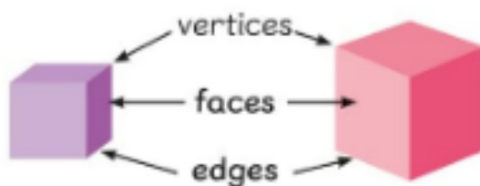
*3D shapes have edges,
faces and vertices.*

different

*The number of edges,
faces and vertices
in each 3D shape is different.*

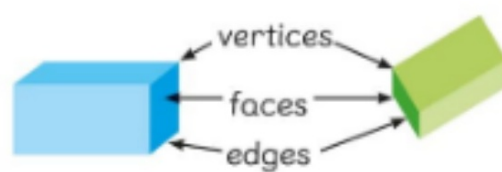
Let's Learn

a Izzy has some 3D shapes.



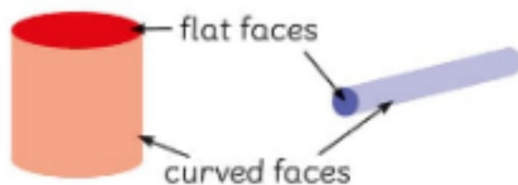
A **cube** has 6 faces, 8 vertices and 12 edges.

Each face is a square.



A **cuboid** has 6 faces, 8 vertices and 12 edges.

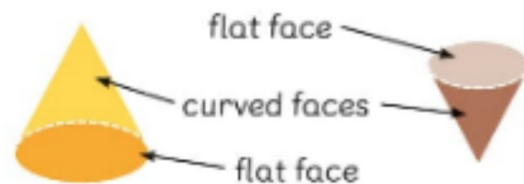
Each face is a rectangle or a square.



3 faces

A **cylinder** has 2 flat faces and 1 curved face.

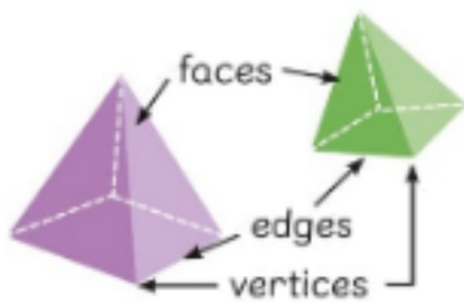
Its flat face is a circle.



A **cone** has 1 flat face and 1 curved face.

Its flat face is a circle.

2 faces



What is the same and what is different between a cone and a pyramid?

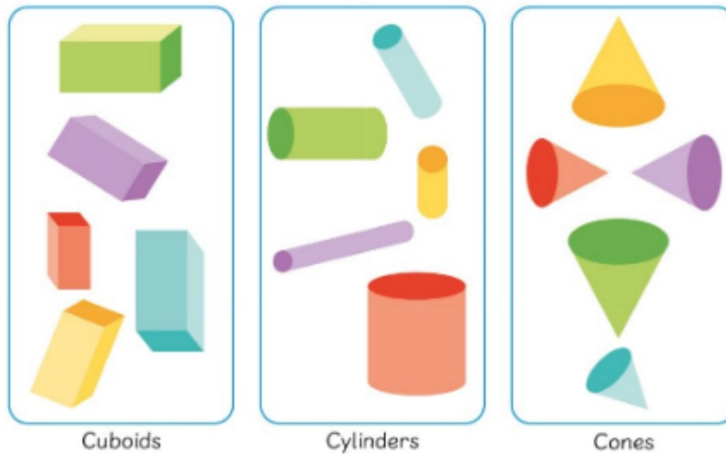


A pyramid has a base and triangular faces.
The base can be any polygon.

This pyramid has 5 faces, 5 vertices
and 8 edges.

4 triangular faces
1 square face (base)

b Rajah sorts the shapes into groups.



He sorts the shapes by number of faces/ edges/vertices

c Alice makes a pattern using different 3D shapes.
Get a sticker from page 249 to complete the pattern.



The pattern repeats this way:
cuboid, cylinder, cone, cube,
cuboid, cylinder, cone, cube, ...

The missing 3D shape
is a cube

What other patterns
can you make with
3D shapes?



Let's Practise

1 Fill in each blank.

a
cylinder



3 faces
2 edges
0 vertices

2 flat faces(circles)
1 curved face

b
cuboid



6 faces
12 edges
8 vertices

2

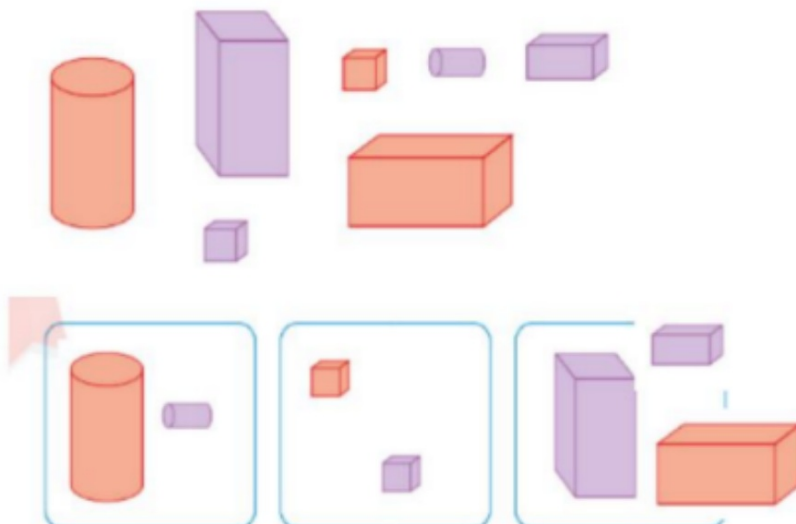


I am thinking of a 3D shape.
It has 6 faces, 8 vertices
and 12 edges.

What shape is Caz thinking of? cube or cuboid

What 2D shapes does this shape have? squares and rectangles

- 3 Get 3D shapes stickers from page 249.
Sort the 3D shapes into groups on the next page.



How do you sort them? by shape

Explain to your partner.

- 4 Ralph uses the 3D shapes to make a pattern.



Use the same shapes to form another pattern.

Use the stickers on page 250 to help you.

any pattern that you can make is acceptable