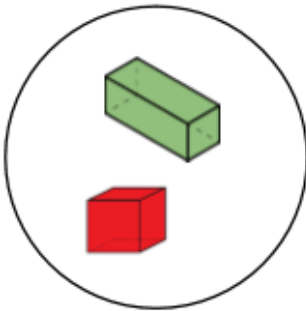


## Year 2

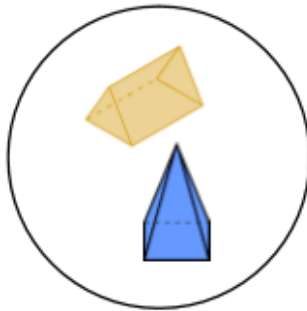
### Sorting 3D Shapes

Use the sorting hoops to complete the statements below.

Set A



Set B

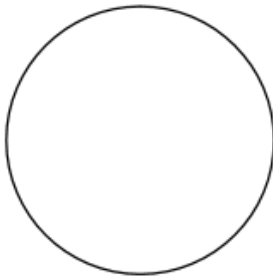


The shapes in set A have  edges.

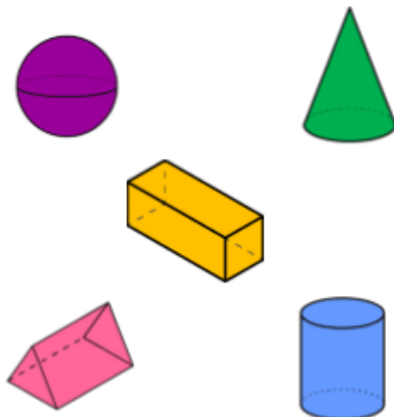
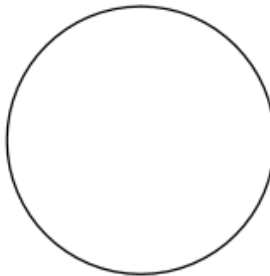
The shapes in set B have  faces.

Use the sorting hoops to complete the statements below.

No vertices



More than 4 edges

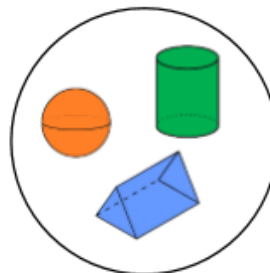


Pratik is sorting 3D shapes using sorting hoops.

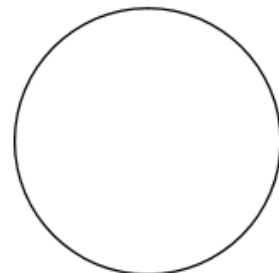


I can think of 2 shapes that fit in the empty group.

Odd number of faces



More than 5 edges



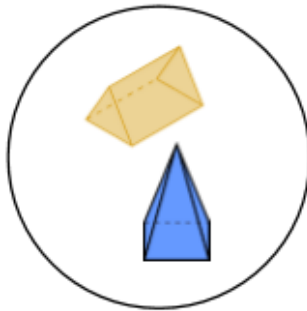
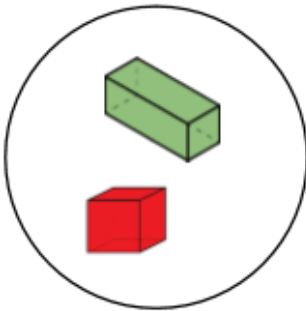
Name 2 shapes that Pratik could be thinking of.

Year 2  
Sorting 3D Shapes

Set A. 12; Set B. 5; various answers, for example: sphere

Set A

Set B



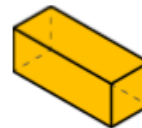
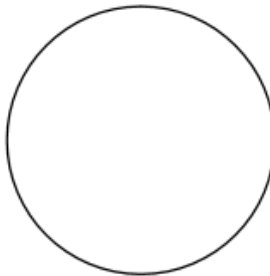
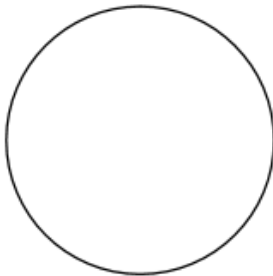
The shapes in set A have  edges.

The shapes in set B have  faces.

cone

No vertices

More than  
4 edges



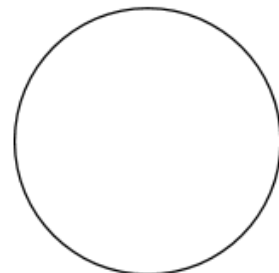
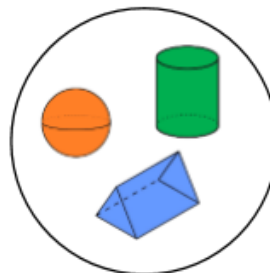
Various answers, for example: cube and triangular-based pyramid



I can think of 2  
shapes that fit in  
the empty group.

Odd number  
of faces

More than 5  
edges



Name 2 shapes that Pratik could be thinking of.

## Year 2

### Sorting 3D Shapes

Use the sorting hoops to complete the statements below.

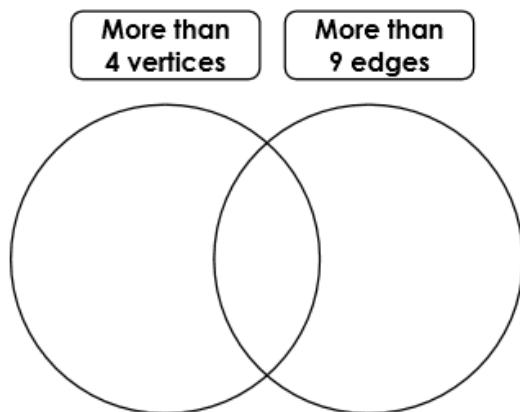


The shapes in set A have  edges.

The shapes in set B have  edges.

Name a shape that could not be sorted into either group.

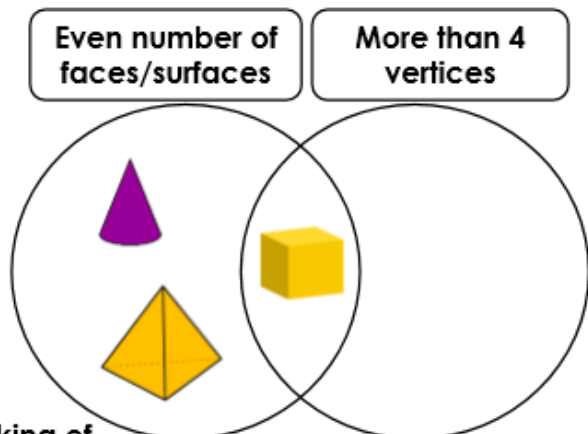
Choose the shape that cannot be sorted into the Venn diagram.



Shona is sorting 3D shapes using a Venn diagram.



I can think of 2 shapes that fit in the empty group.



Name 2 shapes that Shona could be thinking of.

## Year 2

### Sorting 3D Shapes

Set A. 2; Set B. 8; various answers, for example: cone

Set A



Set B



The shapes in set A have  edges.

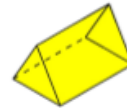
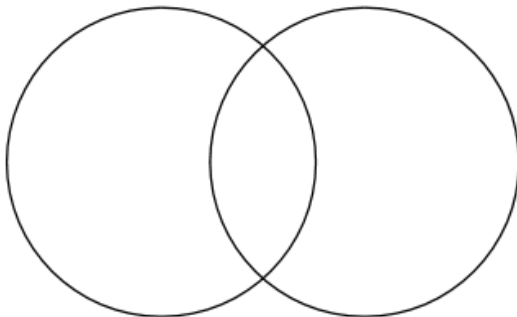
The shapes in set B have  edges.

Name a shape that could not be sorted into either group.

sphere

More than  
4 vertices

More than  
9 edges



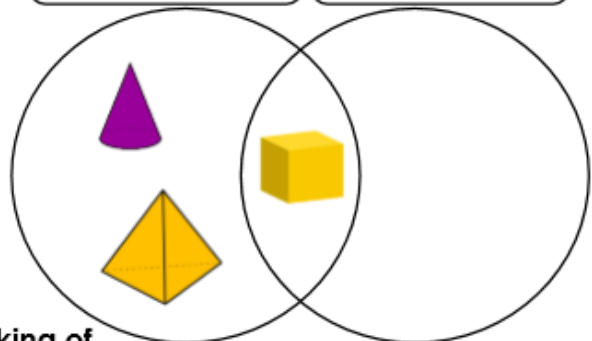
square-based pyramid and triangular prism

Even number of  
faces/surfaces

More than 4  
vertices



I can think of 2  
shapes that fit in  
the empty group.



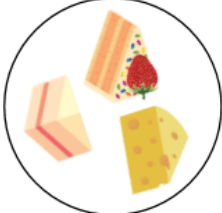
Name 2 shapes that Shona could be thinking of.

## Year 2


### Sorting 3D Shapes

Use the sorting hoops to complete the statements below.

Set A



Set B



The shapes in set A have  edges.

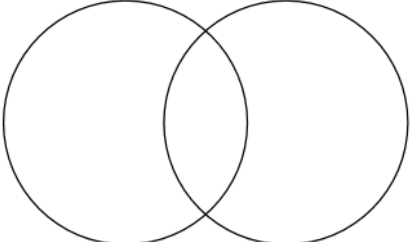
The shapes in set B have  edges.


Name a shape that could not be sorted into either group.

Choose the shape that cannot be sorted into the Venn diagram.


Fewer than 6 vertices

Fewer than 8 edges








Diana is sorting 3D shapes using a Carroll diagram.



I can think of 2 shapes that fit in the empty group.

	Square face	Curved surface
Even number of faces/surfaces		
Odd number of faces/surfaces		

Name 2 shapes that Diana could be thinking of.

During a recent trip to planet Earth, some aliens have collected a group of objects and now they want to deliver them to the correct planet.

Using the instructions above, explore the possible planets each item could be delivered to.

Zap



Zom



Zok



Zin



Zot



**Instructions**

Zap – Even number of edges

Zom – Fewer than 5 edges

Zok – Curved edges

Zin – Odd number of edges

Zot – More than 5 edges




## Year 2


### Sorting 3D Shapes

Set A. 9; Set B. 1; various answers, for example: triangular-based pyramid

**Set A**



**Set B**



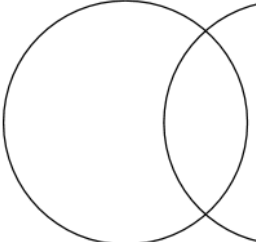
The shapes in set A have  edges.

The shapes in set B have  edges.

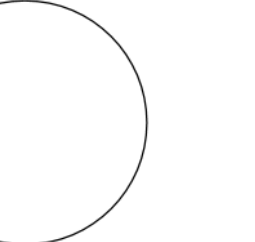
Name a shape that could not be sorted into either group.


cuboid

**Fewer than 6 vertices**




**Fewer than 8 edges**








sphere and cylinder



I can think of 2 shapes that fit in the empty group.

	Square face	Curved surface
Even number of faces/surfaces		
Odd number of faces/surfaces		

Name 2 shapes that Diana could be thinking of.

Various answers, for example: Zap – box (cuboid); Zom – ball (sphere); Zok – drum (cylinder), party hat (cone); Zin – cake (triangular prism); Zot – dice (cube), pyramid (square-based pyramid)

**Zap**



**Zom**



**Zok**



**Zin**



**Zot**



**Instructions**

Zap – Even number of edges

Zom – Fewer than 5 edges

Zok – Curved edges

Zin – Odd number of edges

Zot – More than 5 edges

