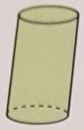
LO: To recognise and describe 3-D shapes.

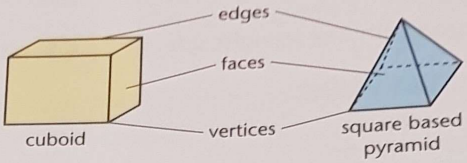
CURVED EDGES
These 3-D shapes have curved edges.
sphere cone
hemisphere cylinder

STRAIGHT EDGES
A 3-D shape with straight edges is a polyhedron.
These shapes are polyhedra (plural of polyhedron).
cube
cuboid
square based pyramid
triangular based pyramid
triangular prism

Examples



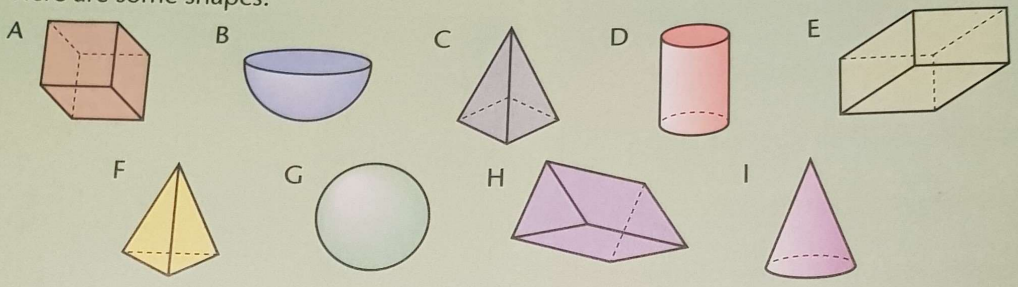
cylinder



Green group:

A

Here are some shapes.



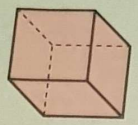
Write down the letter of:

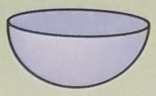
1. 3 shapes with a circular face
2. 2 shapes with a square face
3. 1 shape with 4 vertices
4. 1 shape with no flat faces
5. 3 shapes with a triangular face
6. 3 shapes with curved edges
7. 2 shapes with 12 edges
8. 2 shapes with five faces
9. 2 shapes with one circular face
10. 2 shapes with rectangular faces
11. 1 shape with six edges
12. 1 shape with six vertices.

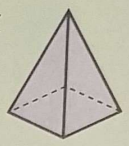
Purple group:

A

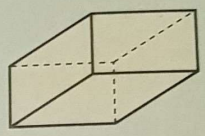
Here are some shapes.

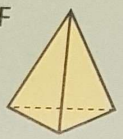
A 

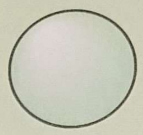
B 

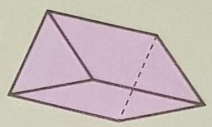
C 

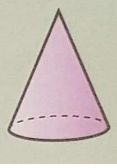
D 

E 

F 

G 

H 

I 

1. Look at the shapes in Section A.
   Write the letter and name of each shape in order from A to I.
2. Copy and complete this table showing the number of faces, edges and vertices for each of the polyhedra shown in Section A.

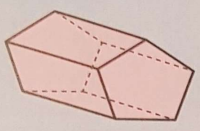
Name of shape	Number of faces	Number of edges	Number of vertices
cube			
square based pyramid			
triangular prism			
triangular based pyramid			
cuboid			

Extra challenge:

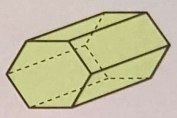
C

A prism is a polyhedron with two identical end faces and the same cross-section throughout its length.

Examples



pentagonal (5 sided) based prism

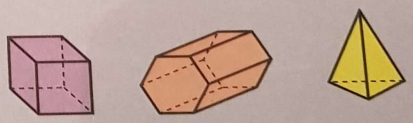


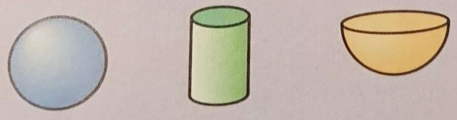
hexagonal (6-sided) based prism

1. For each of the above prisms list the number of:
   a) faces b) edges c) vertices
2. Which three shapes in Section A are prisms?

Name the odd one out in each group. Give a reason for your choice.

3. 

4. 

5. 

6.