

Chapter 10. Visualising Solid Shapes

Question 1

Is cuboid a prism?

Solution:

Yes, because it has a rectangular cross-section throughout its length.

Question 2

What is the key feature of a cuboid?

Solution:

Cuboid has six faces which are all rectangles

Question 3

Is cube a prism?

Solution:

Yes, because it has a square cross-section throughout its length.

Question 4

What is the key feature of a cube?

Solution:

Cube has six faces which are all squares

Question 5

What is the key feature of a prism?

Solution:

The shape of its cross - section is same throughout its length.

Question 6

What is the key features of a triangular prism?

Solution:

A prism with a triangular cross section.

Question 7

How many faces, vertices, edges does a triangular prism have?



Solution:

Faces 5, Corners = 6, Edges = 9

Question 8

What is the key feature of hexagonal prism?

Solution:

A prism with hexagonal cross-section.

Question 9

How many faces, corners, Edges of hexagonal prism have?

Solution:

Faces = 8, corners = 12, Edges = 18.

Question 10

What is the key feature of cylinder?

Solution:

A prism with circular cross-section

Question 11

What is the key feature of sphere?

Solution:

Every point in the surface of the sphere is the same distance from the centre.

Question 12

How many faces, vertices, edges does a sphere have?

Solution:

The normal definition of faces, corners, and edges are not appropriate for a sphere, because it is not a polyhedron.

Question 13

What is the key feature of square based pyramid?

Solution:

A shape with square base and triangular sides that meet at a point.

Question 14

How many faces, corners and edges does a square pyramid have?

Solution:

Faces = 5, Corners = 5, Edges = 8

Question 15

What is the key feature of tetrahedron?

Solution:

Four faces which are all equilateral triangles.

Question 16

How many faces, corners and edges does a tetrahedron have?

Solution:

Faces = 4, Corners = 4, Edges = 6

Question 17

What is the key feature of octahedron?

Solution:

Eight faces which are all equilateral triangles.

Question 18

How many faces, corners and edges does an octahedron have?

Solution:

Faces = 8, Corners = 6, Edges = 12

Question 19

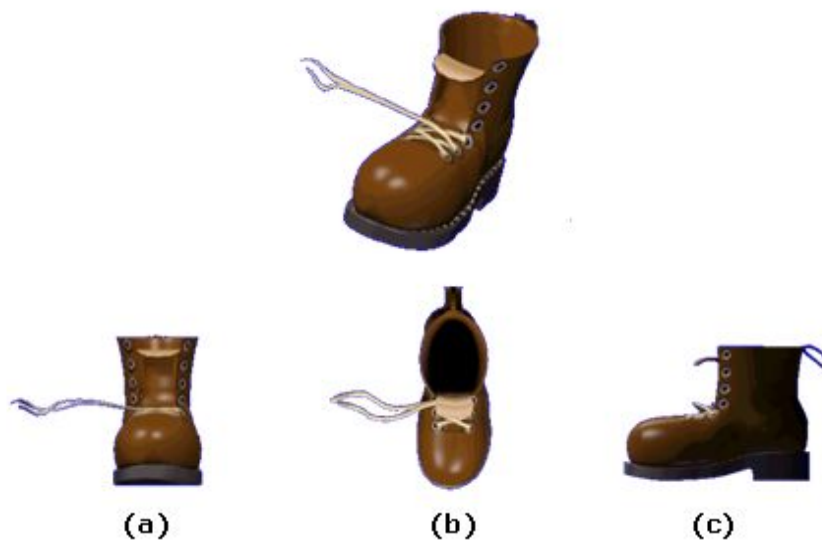
Give some examples for prism.

Solution:

Triangular prism, hexagonal prism, cuboid and cube.

Question 20

Identify the given views of the shoe:



Solution:

- a. Front View
- b. Top View
- c. Side View.

Question 21

Identify the given views of the toilet:



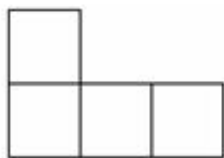
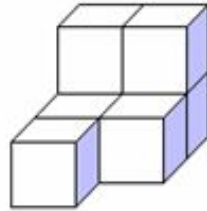
Solution:

- a. Side View
- b. Front View
- c. Top View.

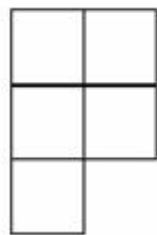
QUESTION 22

Question 22

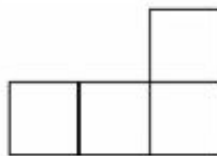
Identify the given views of the block:



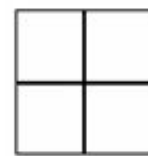
(a)



(b)



(c)



(d)

Solution:

- a. Left View
- b. Top View
- c. Right View
- d. Front View.