

# 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

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### 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.

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### 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

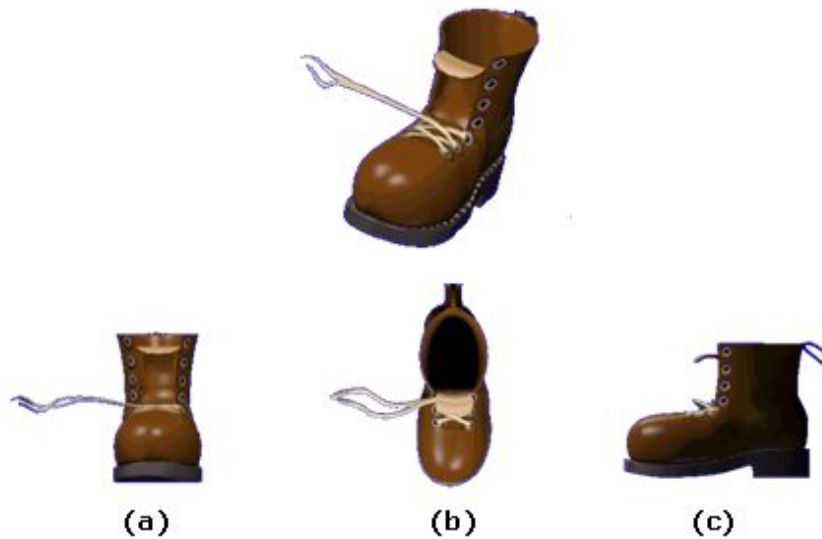
Give some examples for prism.

**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:



(a)



(b)



(c)

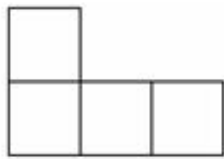
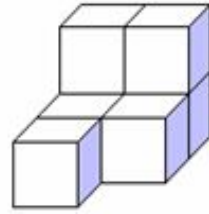
**Solution:**

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

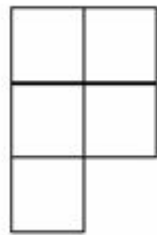
**QUESTION 22**

## Question 22

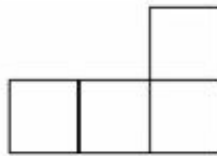
Identify the given views of the block:



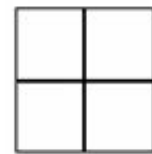
(a)



(b)



(c)



(d)

**Solution:**

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