



Visualising Solid Shapes

Mathematics (CBSE)
Standard 7

Textbook: (Chapter 15 NCERT)

Slides: <https://github.com/NeelChoksi/visualising-solid-shapes>

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Topics

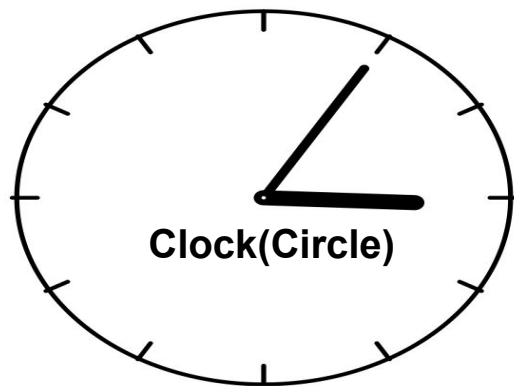


- Plane Figures and Solid Shapes
- Faces , Edges , Vertices
- Building 3D Shapes
- Drawing Solids on a flat surface and Visualizing them.
- Viewing Different Sections of a Solid

Plane Figures(2D)

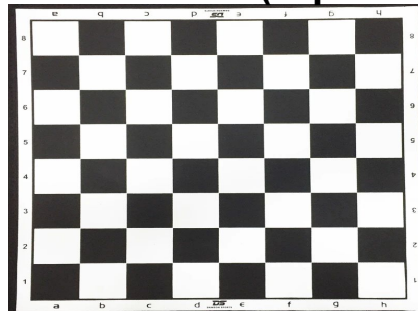


Traffic Sign(Triangle)

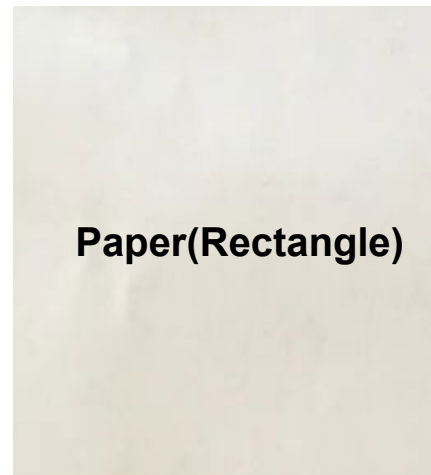


Clock(Circle)

Chessboard(Squares)



Paper(Rectangle)



• Solid Shapes(3D)

Dice(Cube)



Pyramid



Pencil (Cylinder)



Cone



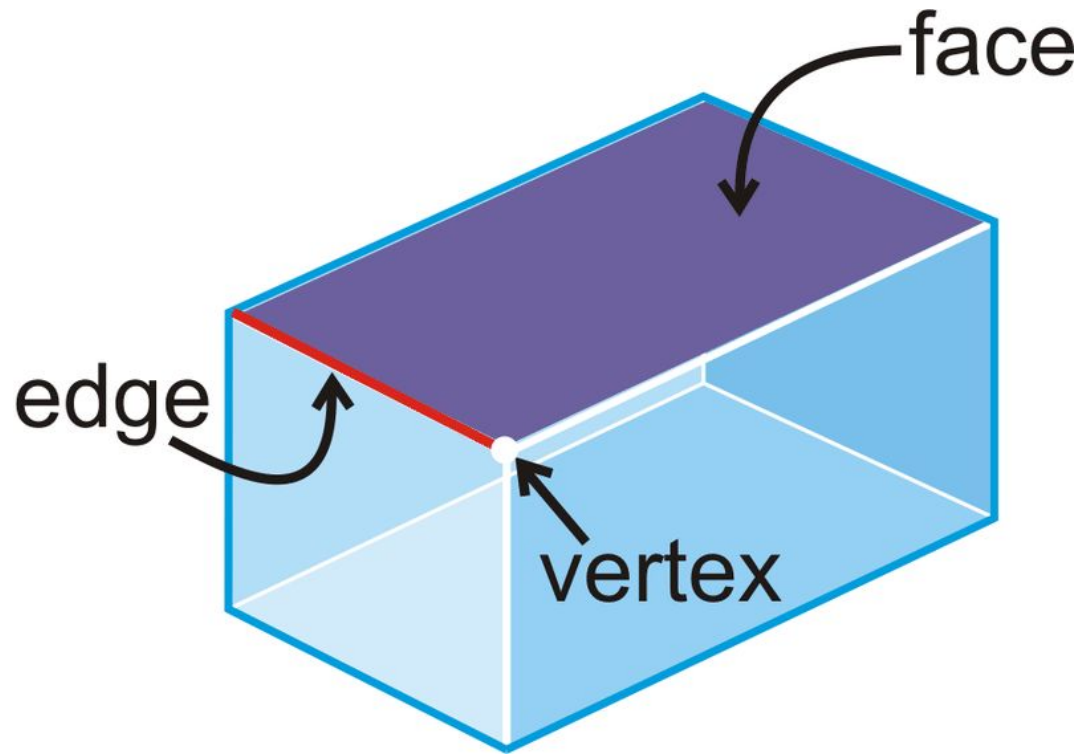
Eraser(Cuboid)



Ball(Sphere)



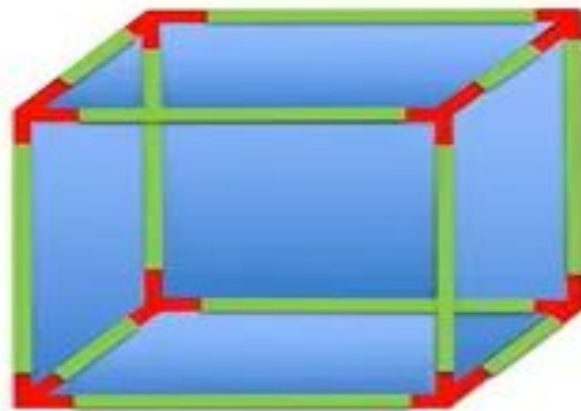
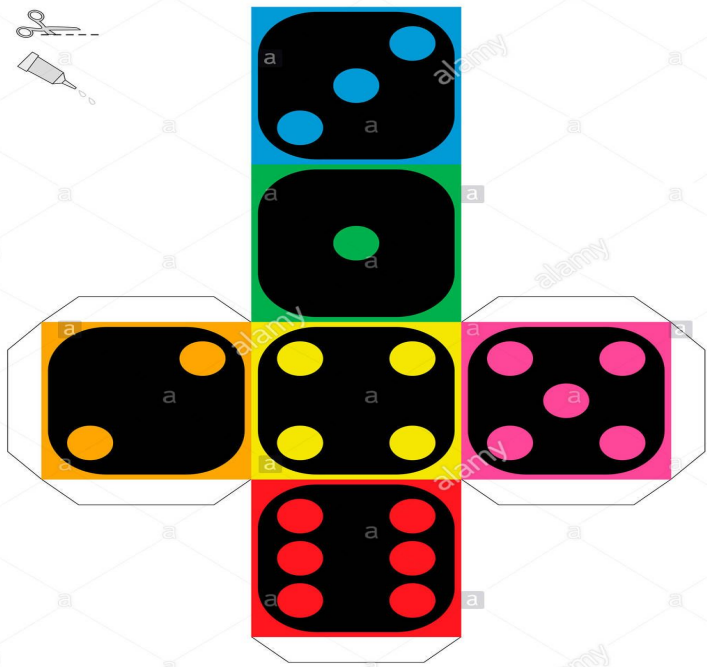
Faces , Edges , Vertices





Building 3D Shapes

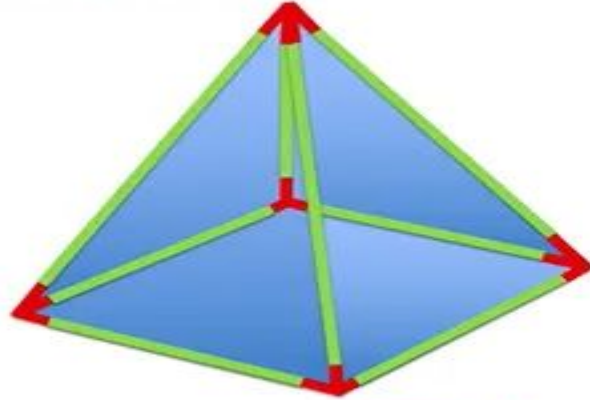
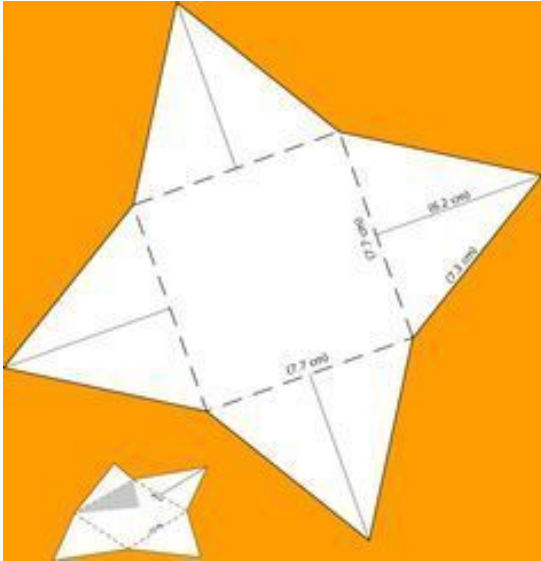
Cube



Faces	6
Edges	12
Vertices	8

Building 3D Shapes

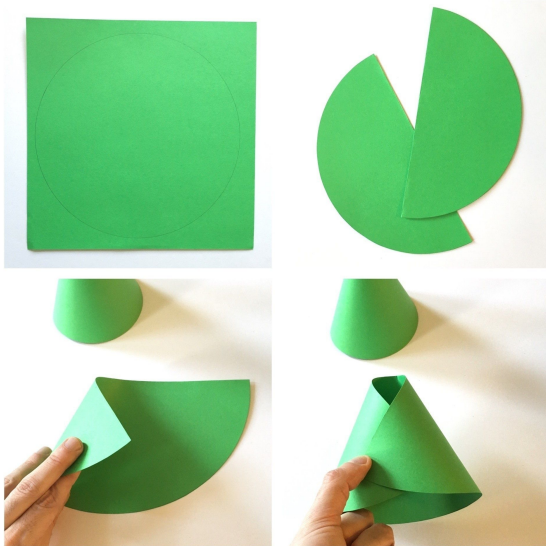
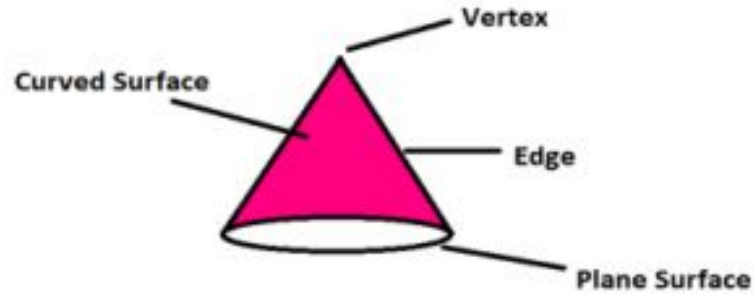
Pyramid



Faces	5
Edges	8
Vertices	5

Building 3D Shapes

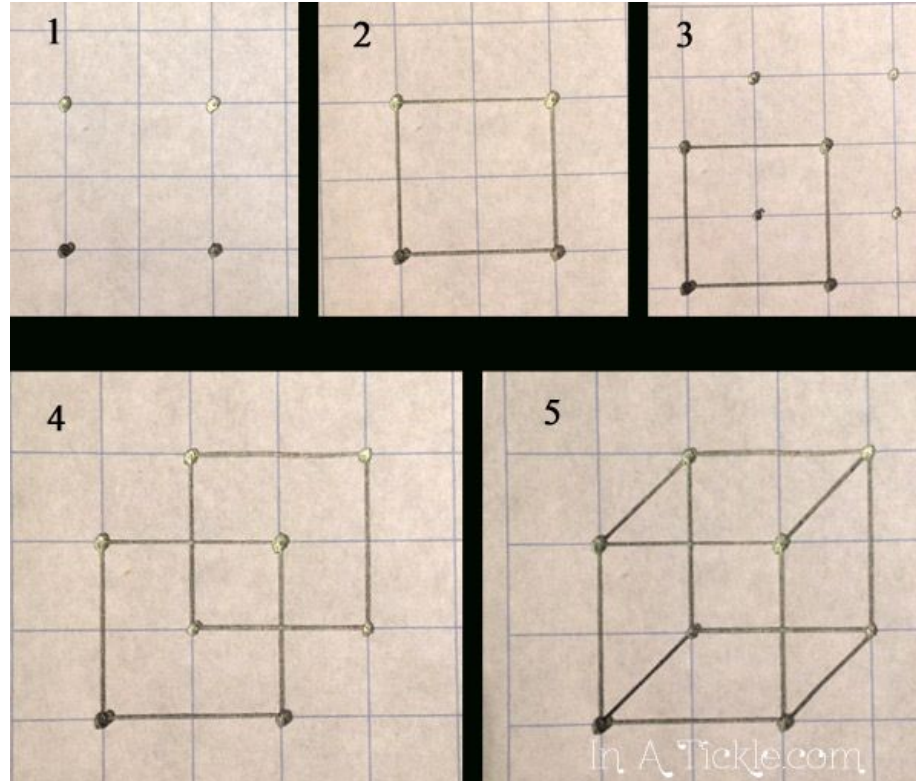
Cone



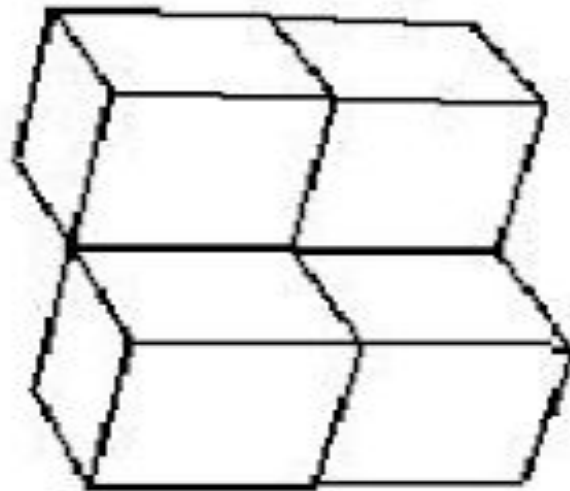
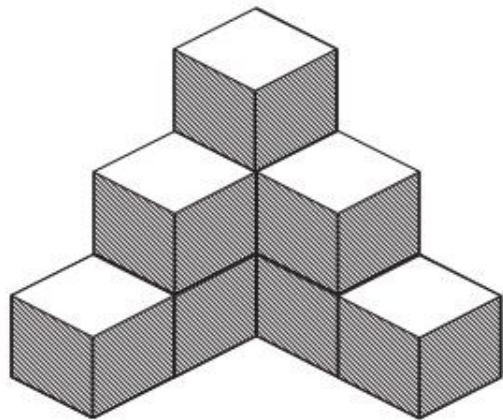
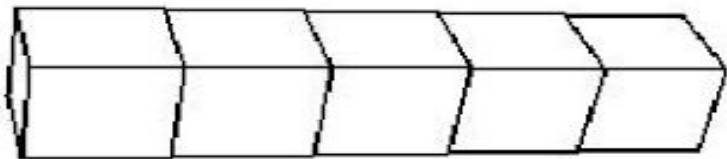
Faces	2
Curved Edge	1
Vertex	1

Drawing Solids on a flat surface

Cube

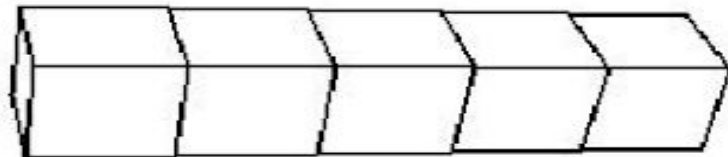


Guess the number of cubes

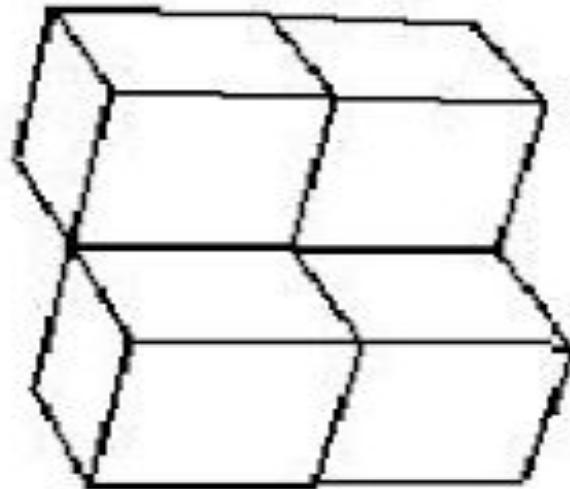


Yes you all were correct!!

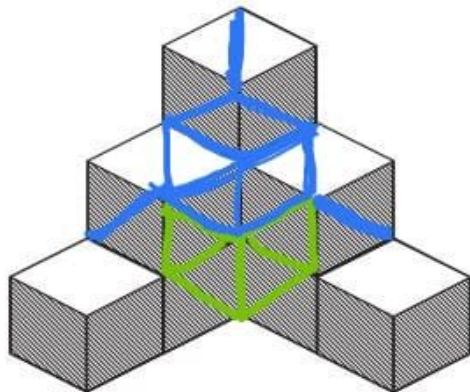
5 Cubes



4 Cubes



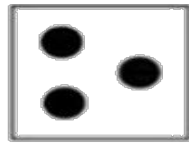
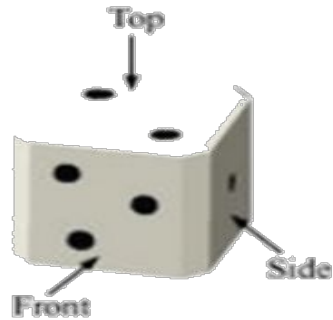
9 Cubes



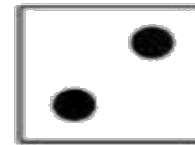
Viewing Different Sections of a Solid

Remember the dice from before?

Dice has 6 sides but we can only see 3 at a time!



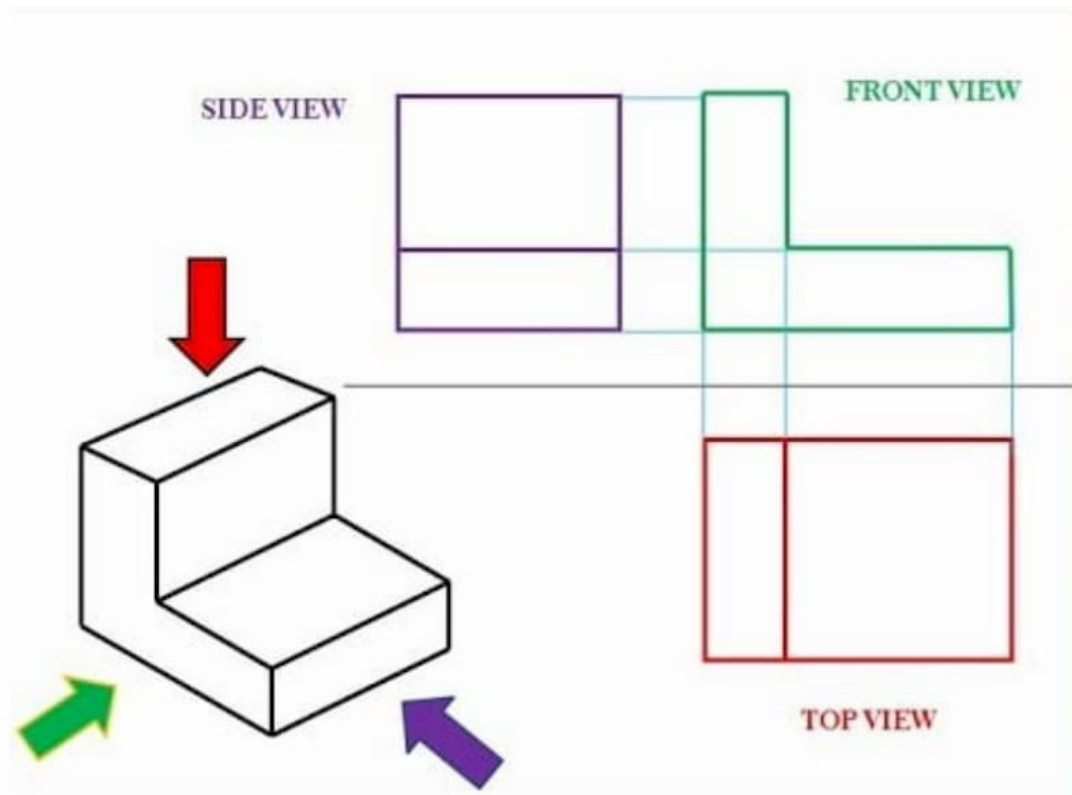
Front view

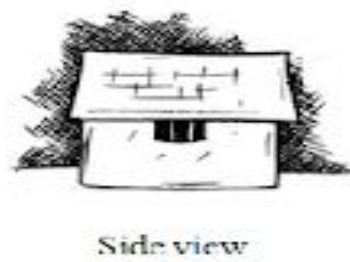
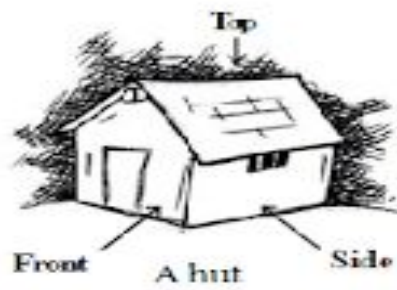


Top view

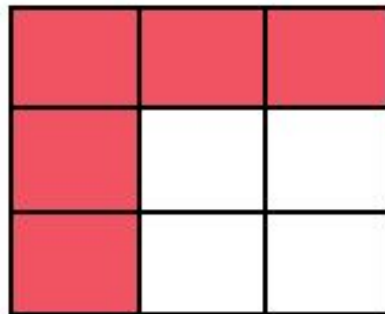
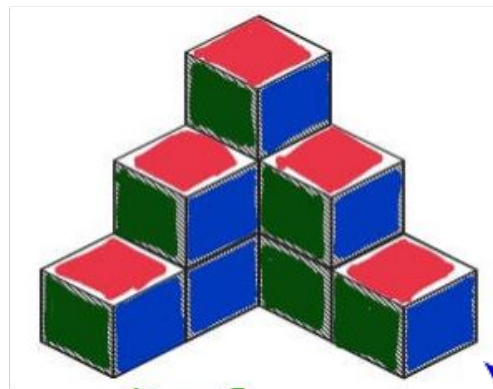


Side view

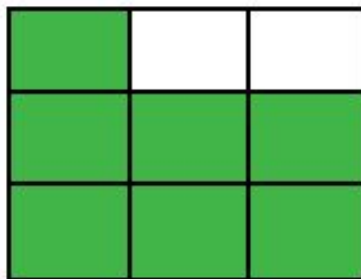




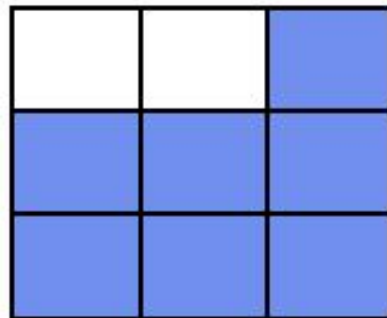
Top



Front



Side



Thank You

