



Rosary School \ Marj Elhamam

Name : _____

Date : / 11 / 2025

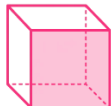
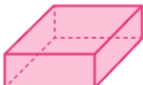
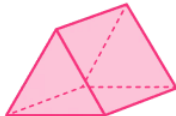
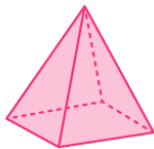

Subject: study sheet (4) / chapter (4)

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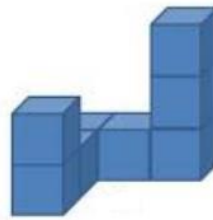
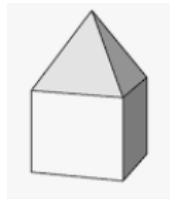
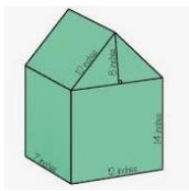
3D Shapes, Volume and Capacity

4.A Identify, Describe and Sketch Compound 3D Shapes

3D shapes are solid shapes that have 3 dimensions: **length**, **width** and **height (depth)**.

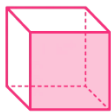

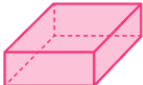
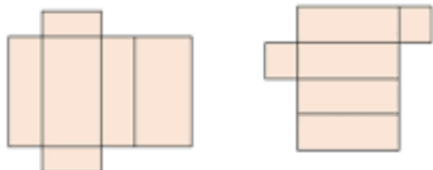
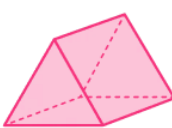
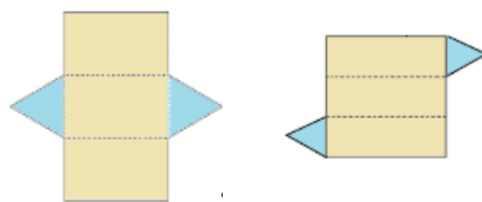
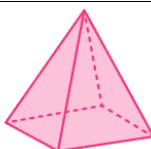


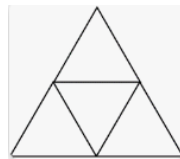
3D shape Name	Number of faces	Faces shapes	Number of edges	Number of vertices	Real life Example	3D shape figure
Cube	6	6 squares	12	8	Dice	
Cuboid	6	6 rectangles	12	8	Boxes	
Triangular Prism	5	2 triangles and 3 rectangles	9	6	Tobleron Chocolate	
Square – based Pyramid	5	1 square and 4 triangles	8	5	Egyptian Pyramid	
Triangular – based Pyramid	4	4 triangles	6	4	Some type of dice	

Compound 3D shapes: Shapes made by joining two or more 3D shapes together.



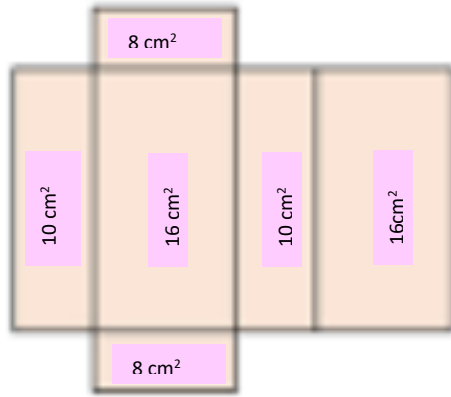
4.B Identify and Sketch Nets of 3D Shapes

A net is a 2D pattern that can be folded into a 3D shape. It shows all the faces of the shape laid flat.

3D shape Name	Net Example	3D shape figure	3D Nets
Cube	6 connected squares		
Cuboid	6 connected rectangles		
Triangular Prism	2 triangles and 3 rectangles		
Square – based Pyramid	1 square and 4 triangles		
Triangular –based Pyramid	4 triangles		

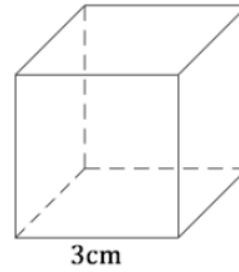
- You can find the surface area of any 3D shape by adding the area of faces in the 3D shape.

1.



$$\text{Surface area} = 10 + 16 + 10 + 16 + 8 + 8 = 68 \text{ cm}^2$$

2.



$$\text{Surface area} = 6 \times (3 \times 3) = 54 \text{ cm}^2$$

4.C Understand the Difference Between Volume and Capacity

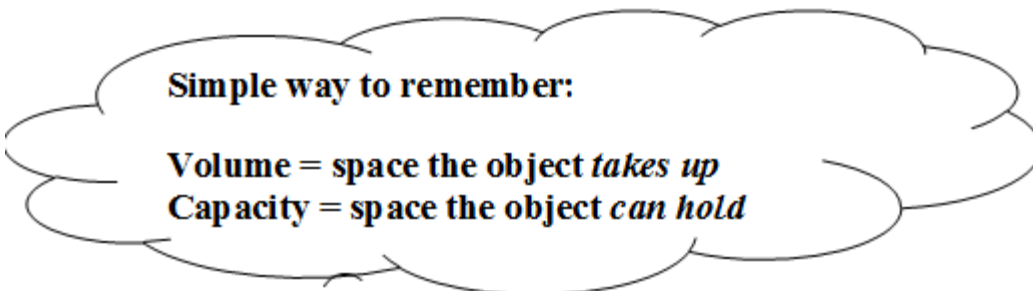
1. What is Volume?

Volume is the **amount of space an object takes up**.

- It can refer to **solid objects or liquid**.
- We usually measure volume in **cubic units** like:
 - cubic centimeters (cm^3)
 - cubic meters (m^3)
- For example:
 - A box with length 3 cm, width 2 cm, and height 2 cm has a volume of:
 $3 \times 2 \times 2 = 12 \text{ cm}^3$

2. What is Capacity?

- **Capacity** is the greatest **amount of liquid a container can hold**.
- It tells us how much space is inside a container.
- We measure capacity in **liters (l)** and **milliliters (ml)**.
- **1 l = 1000 ml**



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