



## Rosary School \ Marj Elhamam

Name : \_\_\_\_\_

Date : / 11 / 2025

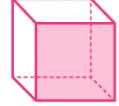
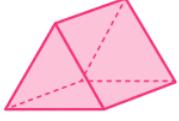
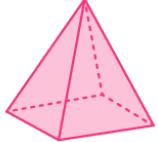
Subject: study sheet (4) / chapter (4)

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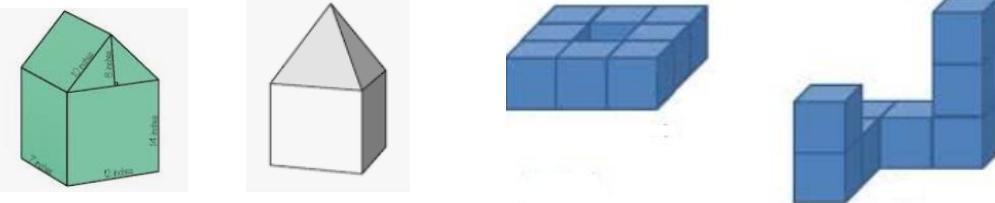
### 3D Shapes, Volume and Capacity

#### 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.**



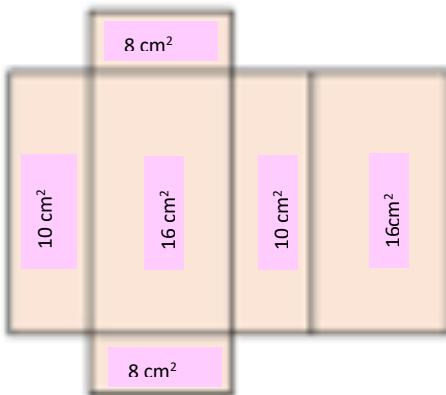
#### **4.B Identify and Sketch Nets of 3D Shapes**

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

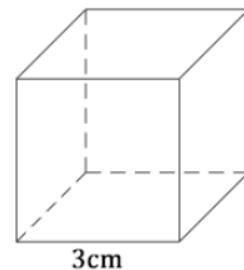
3D shape Name	Net Example	3D shape figure	3D Nets
Cube	6 connected squares		
Cuboid	6 connected rectangles		
Triangular Prism	2 triangles and 3 rectangles		
Square – based Pyramid	1 square and 4 triangles		
Triangular –based Pyramid	4 triangles		

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

1.



2.



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

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

#### **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 ( $\text{cm}^3$ )
  - cubic meters ( $\text{m}^3$ )
- 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**

**Simple way to remember:**

**Volume = space the object *takes up***  
**Capacity = space the object *can hold***

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