Rosary School \ Marj Elhamam

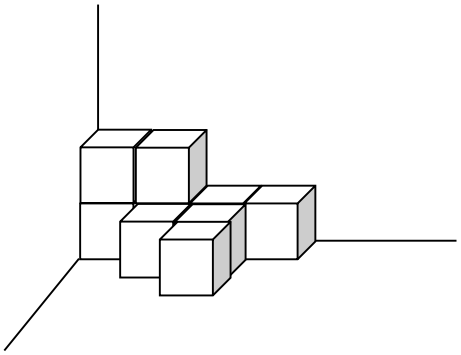
Name : _____ Date: / 11 / 2025

Subject: Worksheet (4) / chapter (4) Grade: 5 ( )

3D shapes , Volume and Capacity

Lesson A: Identify, Describe and Sketch Compound 3D Shapes

Q1. How many cubes are there in the figure below?



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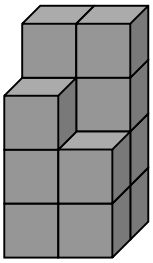
Q2. The shape below is made up of identical cubes.

What is the least number of cubes needed to turn this shape into a cuboid?



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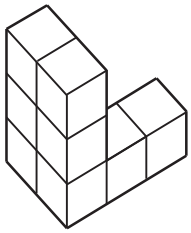
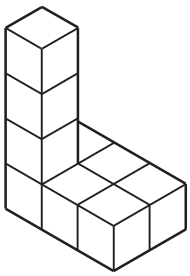
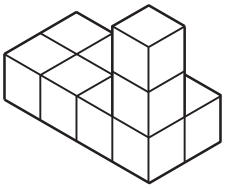
Q3. Here are drawings of some 3D models made with cubes.



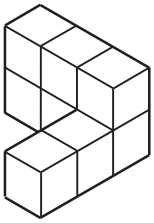
A



B



C

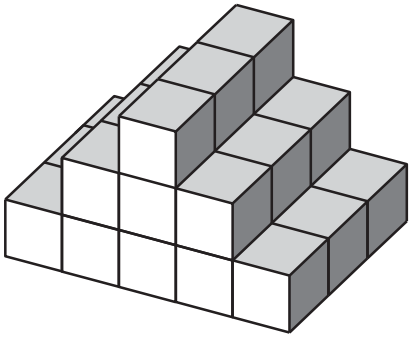


D

Draw a ring around the **two** models that are the same shape.

Q4. Hassan uses some of the cubes to make a prism.

Here is a drawing of his prism.

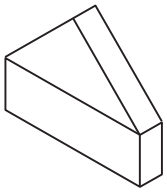


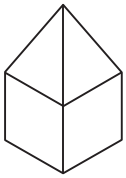
Calculate the number of cubes he uses. ---------- cubes.

Lesson B: Identify and Sketch Nets of 3D Shapes

Q1. Lily makes some models.

She uses a cuboid and one other 3D shape for each model.
Draw a line to match each model to the name of the **other** 3D shape she uses.



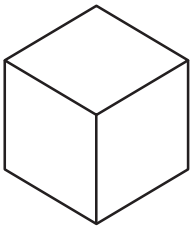


triangular prism

square-based pyramid

triangle-based pyramid

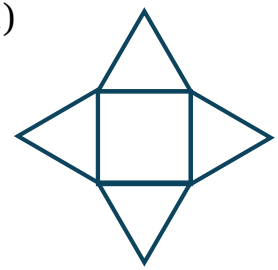
Q2. A cube has a surface area of 96 cm^2.



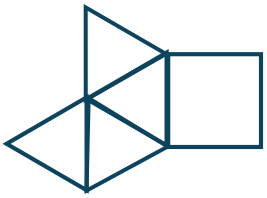
Write the area of one face of the cube. ----------cm^2.

Q3. Which of the following nets does not form a square-based pyramid?

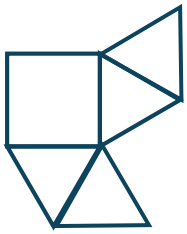
(1)



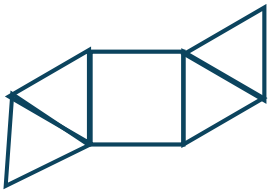
(2)



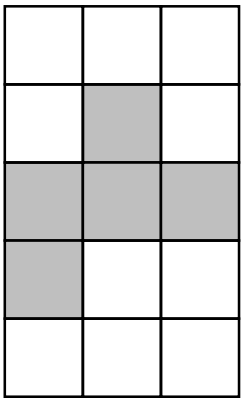
(3)



(4)

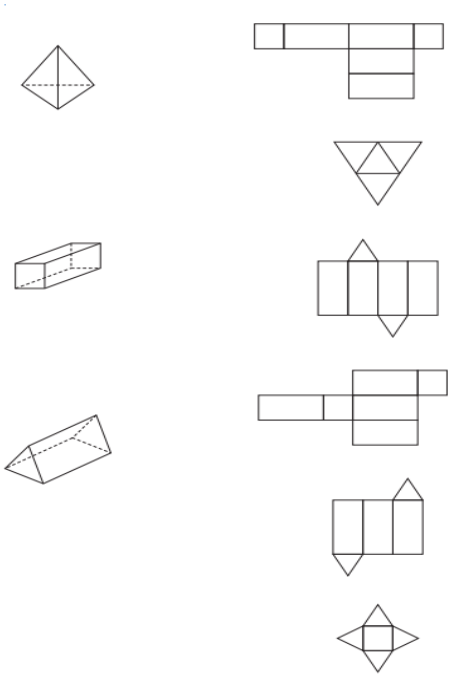


Q4. Sandy is shading the square grid below to form a net for a cube.

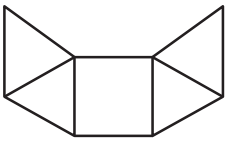


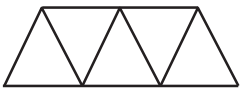
She has 1 last square to shade. Help her shade the square on the diagram.

Q5. Draw a line to match each 3D shape to the correct net.

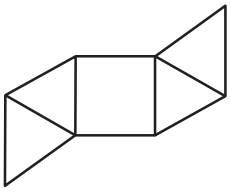


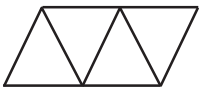
Q6. Draw a line to match **each** drawing with the correct option.



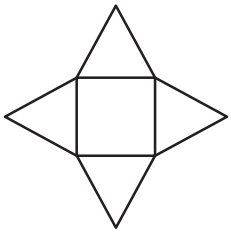


net of a pyramid



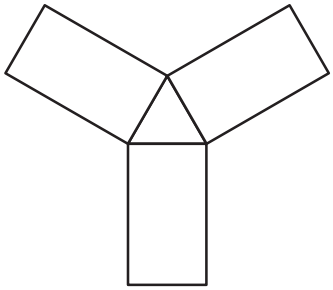


`not a net of a pyramid

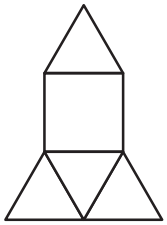


Q7. Angelique wants to sketch the nets of some 3D shapes.

a. Complete the sketch of the net for a triangular prism.

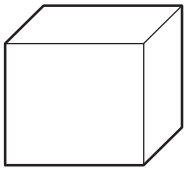


b. Here is the net for a 3D shape.



Write the name of the shape. _____

Q8. Here is a sketch of a cube.



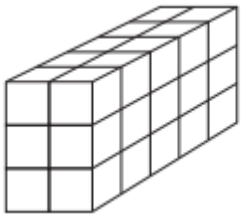
Not drawn to scale

The area of one face is 9 cm^2.

Calculate the total surface area of the cube. ----------cm^2

Q9. Here is a drawing of a cube.

The area of each face of the cube is $1cm^2$.
Hassan makes a cuboid from some of these cubes.
Here is a drawing of Hassan's cuboid.



Not drawn to scale

Calculate the surface area of the cuboid. Show your working. cm^2

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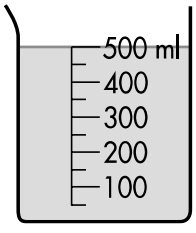
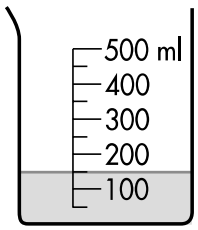
Lesson C: Understand Difference between Capacity and Volume

Q1. What is the total volume of water in both measuring cups?





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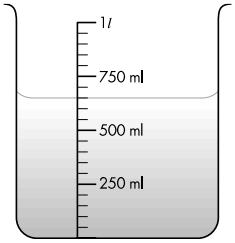
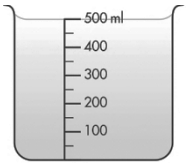
Q2.





Container A Container B

Eddy pours some water from container B such that it fills container A to its full capacity. What is the volume of water left in container B?

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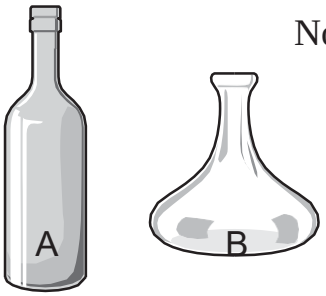
Q3. Here are two empty bottles.



Not drawn to scale

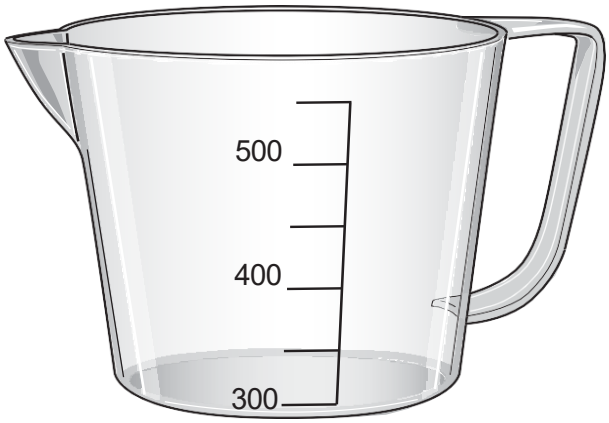
Naomi pours water with a volume of 600 ml into bottle A. Bottle A is now half full.

Naomi then pours half of the water in bottle A into bottle B. Bottle B is now half full.

Write the capacity of bottle A. ----------ml

Write the capacity of bottle B. ----------ml

Q4. Here is a jug.



Safia wants to pour 1000 ml of water into jug.

Explain why this is **not** possible.

Use the words volume **and** capacity in your answer.

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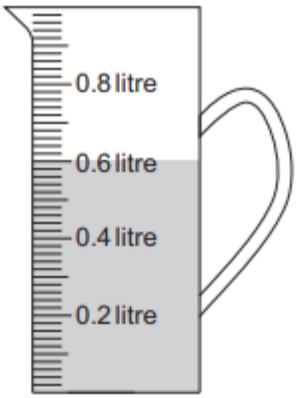
. . . . . .

Q5. Here is a picture of a jug with water inside.



Write the word **capacity** or **volume** in each space to complete the sentences.

The _____ of the jug is greater than the _____ of water.

The _____ of water is 0.6 litre.

The _____ of the jug is 1 litre.

Teachers: Qusie Hijazeen, Rand Haddad, Rand Haddadin