Rosary School \ Marj Elhamam

Name : _____ Date : / 11 / 2025

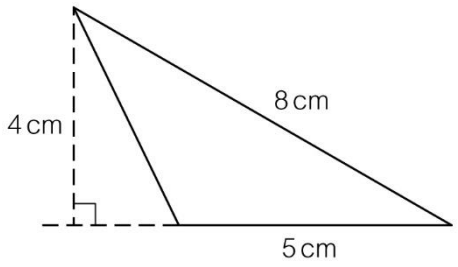
Subject: Worksheet (4) / Unit (4) Grade : 7 ( )

2D shapes and 3D solids

4.1 Area of Shapes Triangle, Parallelogram and Trapezium.

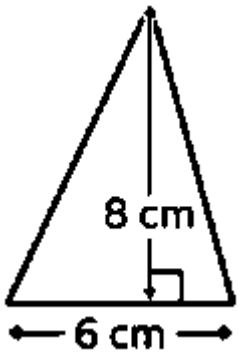
Q1. Find the area of these triangles.

a.



_____cm^2

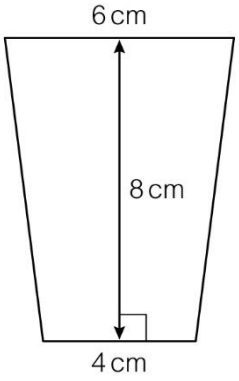
b.



_____cm^2

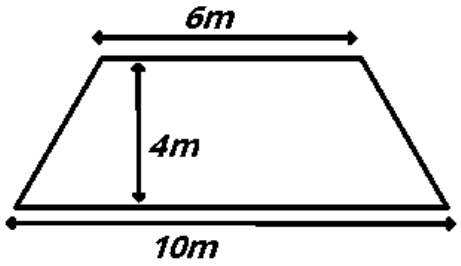
Q2. Find the area of these trapeziums.

a.



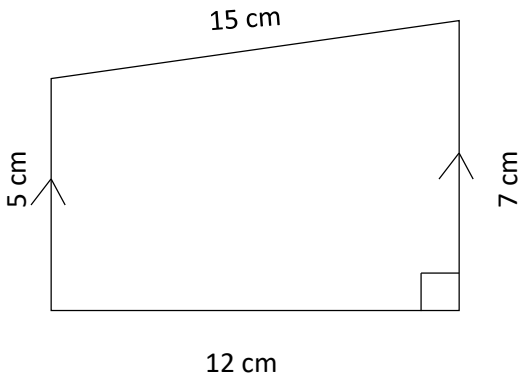
_____ cm^2

b.



_____ cm^2

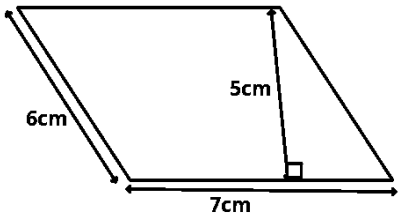
c.



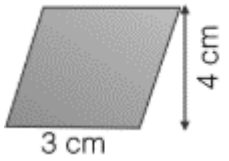
_____ cm^2

Q3. Find the area of these parallelograms.

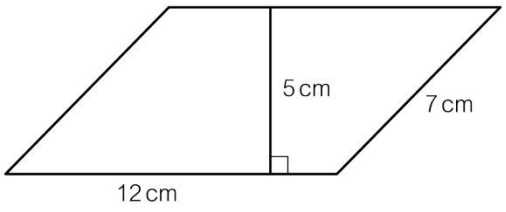
a.

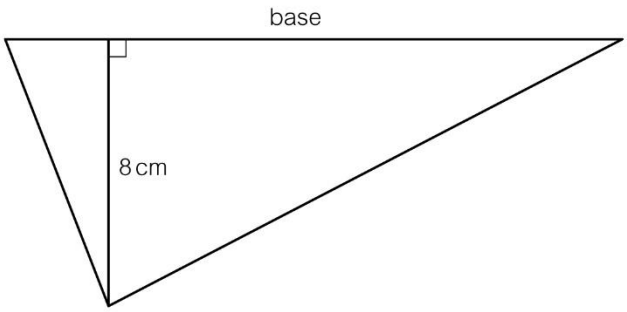


b.



Q4. The diagram shows a parallelogram and a triangle.





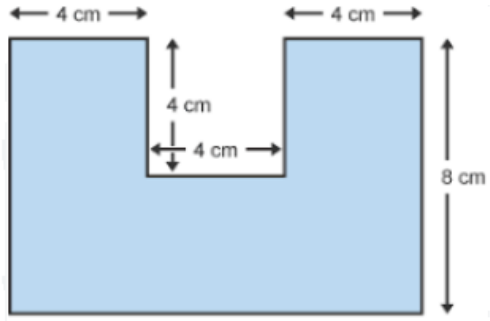
The parallelogram and the triangle have the same area.

Show that the base of the triangle is 15 cm.

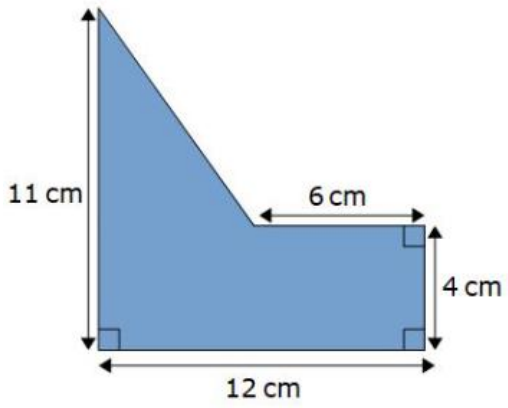
4.2 Area of Compound Shape

Q1. Find the area of the following compound shapes.

a.

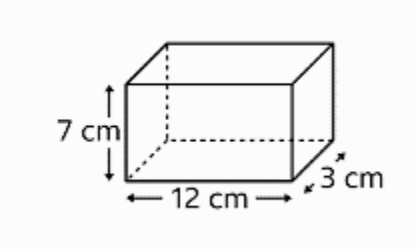


b.



4.3 Properties of 3D solids

Q1. Sketch the net of the following cuboid.



Q2. A cube has 2 opposite faces coloured red, 2 opposite faces coloured blue and the other faces coloured green.

Sketch the net of this cube, showing the colour of each face.

4.4 Surface area

Q1. A cuboid has edges of length 5 cm, 6 cm, 4 cm.

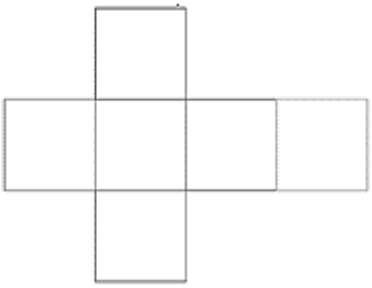
Work out the total surface area of the cuboid.

_____ cm^2

Q2. Here is a net of a cube.

The length of each side is *s* cm.

a. Write an expression for the surface area



s cm

b. Work out the surface area when the edge is 6 m

4.5 Volume

Q1. Find the volume of:

a. A cube with side 7 cm.

_____ cm^3

b. A cuboid with width 4 cm, height 5 cm, and length 12 cm.

_____ cm^3

Q2. A fish tank is in the shape of a cuboid.

The base of the tank measures 45 cm by 20 cm.

Sam pours water into the tank up to a depth of 15 cm.

Work out the amount of water that he pours in.

Give your answer in litres.

_____*litres*

Q3. Copy and complete these conversions.

a. 0.26 litres = _____ cm^3

b. 2.3 cm^3 = _____ ml

c._____ litres = 5241 cm^3

4.6 STEM: Measure of area and volume

Q1. Change 50 cm^3 to mm^3.

_____mm^3

Q2. Show that 5.4 m^3 = 5 400 litres.

Show your working clearly.

Q3. Copy and complete these conversions.

a. 3000 cm^3 = _____ *l*

b. 0.8 *l* = _____ cm^3

c. 0.5 m^2 = _____ cm^2

d. 4 hectares = _____ m^2

e. 89000 m^2 = _____ hectares

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