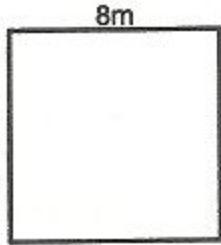
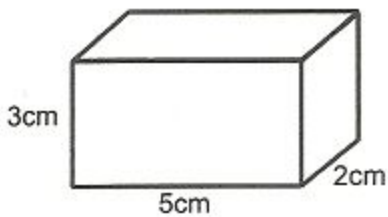


Calculate the area of the square floor below.



Answer.....(1)

What is the volume of the cuboid below?

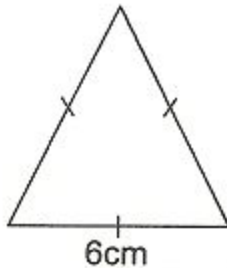


Answer.....(1)

The perimeter of a square is 28 cm. What is the length of ONE side of the square?

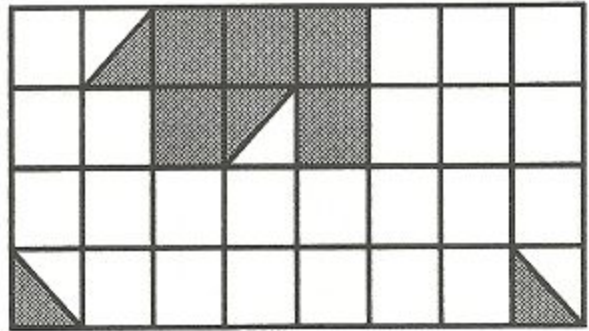
Answer.....(1)

What is the perimeter of the triangle below?



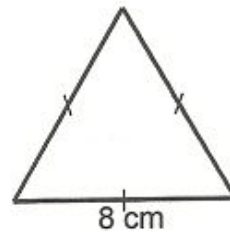
Answer.....(1)

In the diagram below each square represents  $1\text{cm}^2$ .



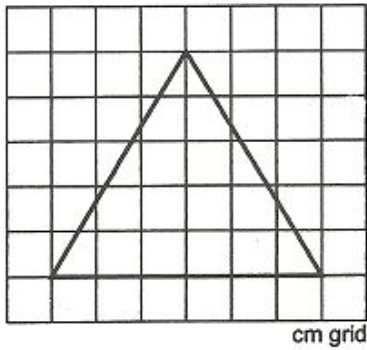
What is the area of the shaded region?

Answer..... $\text{cm}^2$  (1)



What is the perimeter of the triangle above?

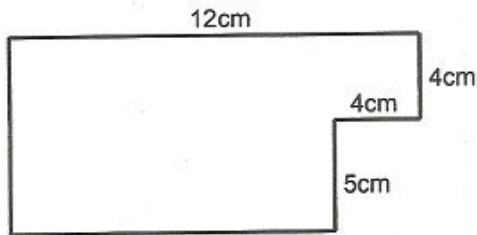
Answer.....(1)



Calculate the **area** of the triangle above.

Answer.....(1)

Calculate the **perimeter** of the shape below.



Answer.....(1)

A square floor has a length of 9m.  
What is the **area** of the floor?

Answer.....(1)

The area of a square floor is  $81\text{cm}^2$ .  
Calculate the length of one side of the floor.

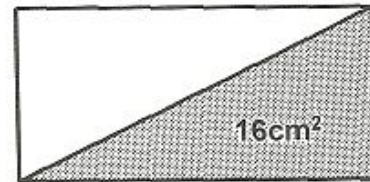
Answer.....(1)



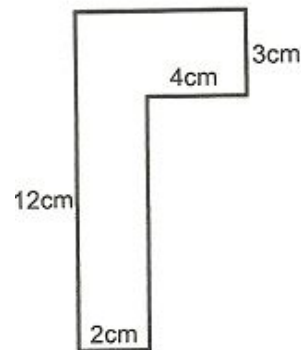
Calculate the **volume** of the cube.

Answer.....(1)

What is the **area** of the rectangle if the **shaded part** is  $16\text{cm}^2$ ?



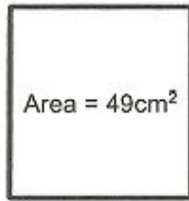
Answer.....(1)



Calculate the **perimeter** of the shape shown.

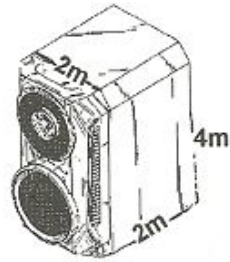
Answer.....(1)

The area of the square below is  $49\text{cm}^2$ .



Calculate the perimeter of the square.

Calculate the volume of the speaker box shown.

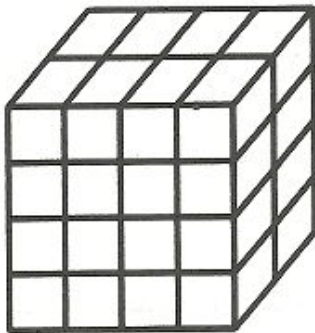


Answer.....(1)

The volume of an aquarium is  $21\,500\text{cm}^3$ .  
How many litres of water will it hold?

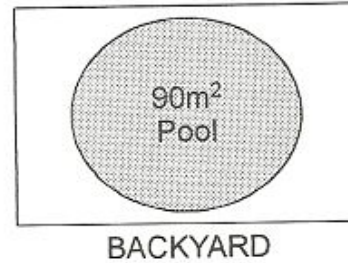
Answer.....(1)

Calculate the volume of the cuboid below if each small block is  $1\text{cm}^3$ .



A rectangular floor has a width of  $8\text{m}$  and a length of  $12\text{m}$ . What is the area of the floor?

Answer.....(1)



The backyard shown above has an area of  $105\text{m}^2$  and the pool has an area of  $90\text{m}^2$ .  
What is the area of the backyard around the pool?

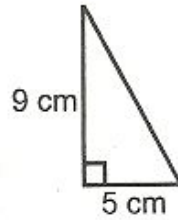
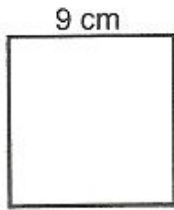
Answer.....(1)

## SECTION 2

Mr. Thomas fenced the land around his house. The distance between each post was  $4\text{m}$ . The distance between the first post and the last post is  $28\text{m}$ . How many posts did he use.

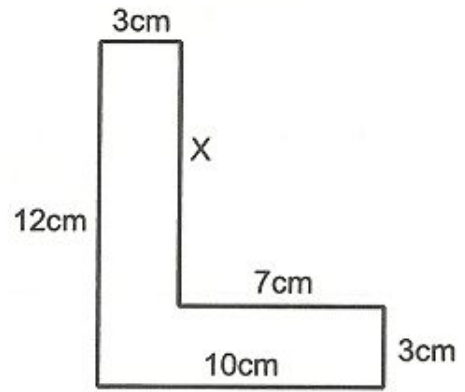
Answer.....(2)

Below are diagrams of a square and a triangle.



Which shape has the **SMALLER** area?  
Show how you arrived at your answer.

Answer.....(2)



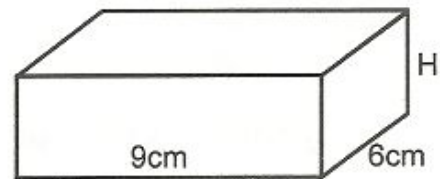
(a) Calculate the length of the side marked X.

Answer.....(1)

(b) Calculate the area of that shape.

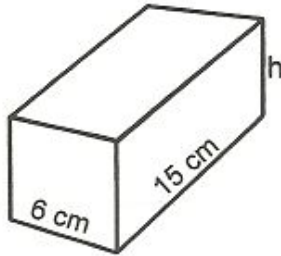
Answer.....(2)

The box below has a volume of  $162\text{cm}^3$ .  
Calculate the **height** of the box.



Answer.....(3)

The volume of the box below is  $900\text{cm}^3$ .  
What is the **height** of the box?

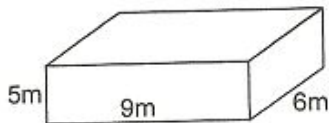


Answer.....(2)

The length of a square floor is  $10\text{m}$ . A square carpet of side  $8\text{m}$  is placed on the centre of the floor.  
What is the area of the floor **NOT** covered by the carpet?

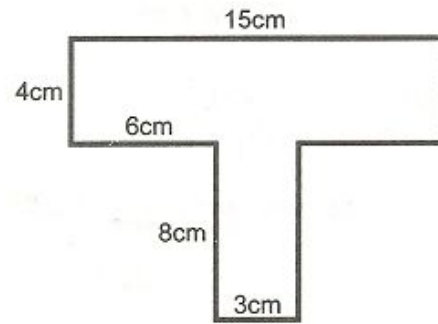
Answer.....(2)

Calculate the **volume** of the aquarium below.

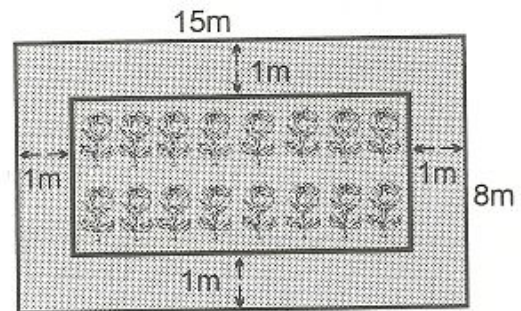


Answer.....(2)

Calculate the **area** of the shape below.



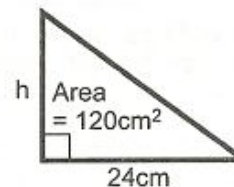
Answer.....(3)



The lawn above has a flower garden in the middle.  
What is the **area** of the lawn **NOT** covered with flowers?

Answer.....(3)

The triangle below has a base of  $24\text{cm}$  and an area of  $120\text{cm}^2$ . Calculate its height.



Answer.....(2)



A rectangular fish tank measures 30cm by 40cm by 20cm.

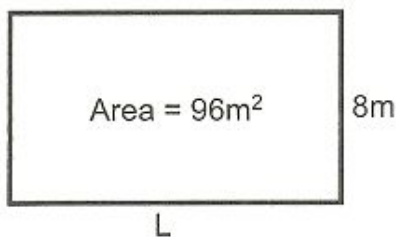
(a) Calculate its volume in  $\text{cm}^3$ .

Answer.....(1)

(b) Calculate the amount of water that fish tank will hold in litres.

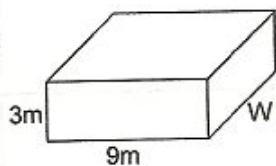
Answer.....(2)

Below is a plot of land that Mr. Victor wants to fence.



If the area of the land is  $96\text{m}^2$  and its width is 8m, calculate the **length** of the land.

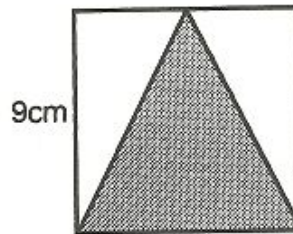
Answer.....(2)



The aquarium shown has a volume of  $162\text{m}^3$ .

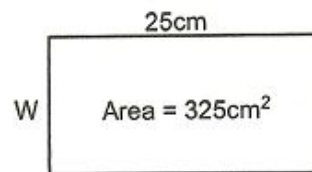
If the length is 9m and its height is 3m, calculate the **width** of the aquarium.

Answer.....(3)



Calculate the area of the shaded triangle in the square if one side of the square is 9cm.

Answer.....(2)

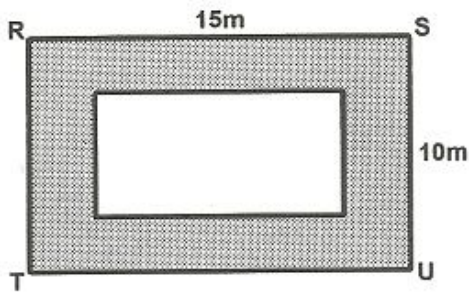


Calculate the width of the rectangle if its area is  $325\text{cm}^2$ .

Answer.....(2)

A rectangular floor to be tiled is 5m wide by 8m long. If the square tile to be used has a side of 20cm, how many tiles are needed to tile that floor?

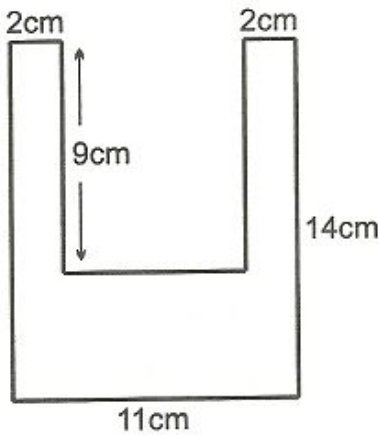
Answer.....(3)



The area of the shaded part of the rectangle RSTU shown above is  $70\text{m}^2$ . What is the area of the **unshaded** part of the rectangle?

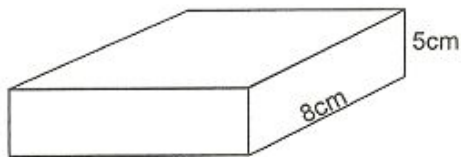
Answer.....(2)

Calculate the area of the shape below.

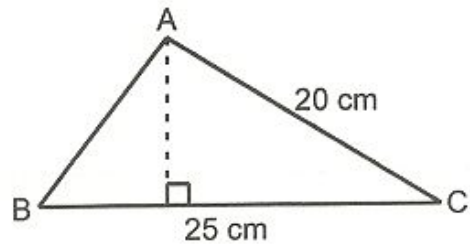


Answer.....(3)

Calculate the length of the solid below if its volume is  $480\text{cm}^3$ .



Answer.....(2)

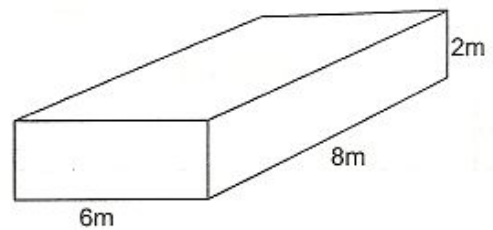


The area of the triangle above is  $75\text{cm}^2$ . What is its height?

Answer.....(3)

SECTION 3

Your neighbour's backyard has a rectangular pool as shown below.



(a) Calculate in  $\text{cm}^3$  the volume of the pool.

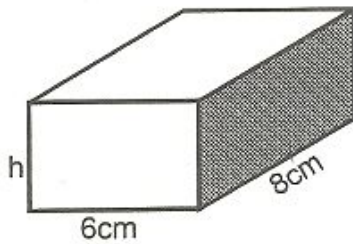
Answer..... $\text{cm}^3$ .(1)

(b) How many **LITRES** of water are needed to fill that pool?

Answer.....litres.(2)

(c) Calculate the area of the base of the pool in  $\text{m}^2$ .

Answer.....(2)



The volume of the cuboid above is  $240\text{cm}^3$ .  
The length is 6cm and the width is 8cm.

- (a) Calculate the height of the cuboid.

Answer.....(3)

- (b) Calculate the area of the shaded face of the cuboid.

Answer.....(2)

Mr. Gorin needs to tile his garage floor which is 12 metres long by 10 metres wide.

- (a) Calculate the **area** of the floor to be tiled in  $\text{cm}^2$ .

Answer.....(2)

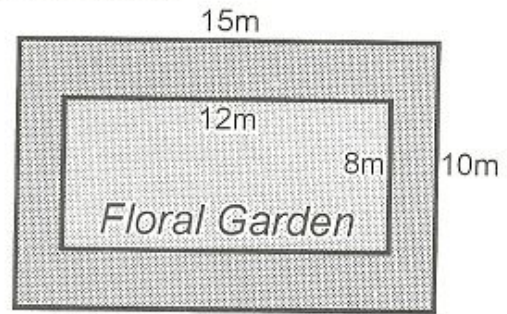
- (b) If each tile is squared with a side of 25cm, calculate the **area** of a tile.

Answer.....(1)

- (c) How many of those tiles would Mr. Gorin need to completely tile his garage floor?

Answer.....(2)

The rectangular piece of land below shows a school's backyard.



SCHOOL'S BACKYARD

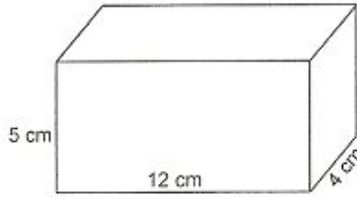
- (a) Calculate the **area** of the school's backyard.

Answer.....(2)

- (b) A floral garden was planted in the middle of the school's backyard leaving a pathway around. Calculate the **area** of the pathway around the floral garden.

Answer.....(3)





(a) Complete the table based on the cuboid above.

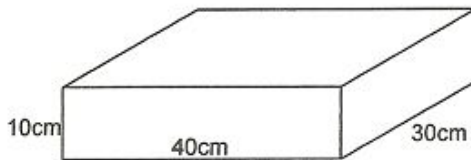
Name of solid	No. of faces	No. of edges	No. of vertices
Cuboid	_____	_____	_____

(3)

(b) Calculate the **volume** of the cuboid.

Answer.....(2)

The diagram below is that of a school's aquarium.



(a) Calculate the **volume** of the aquarium.

Answer.....(2)

(b) If the aquarium is half filled with water, how many litres will it contain?

Answer.....(2)

(c) If the aquarium has 3 litres of water, what per cent of the aquarium is filled?

Answer.....(1)

A school's savannah is 18m long and 12m wide. The school's PTA has decided to fence the savannah using posts placed 3m apart.

(a) What is the distance around the savannah?

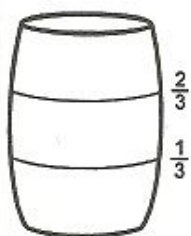
Answer.....(1)

(b) How many posts will they need to fence the savannah?

Answer.....(2)

(c) If 1 post cost \$15.00, calculate the total cost of the posts needed to fence the savannah.

Answer.....(2)

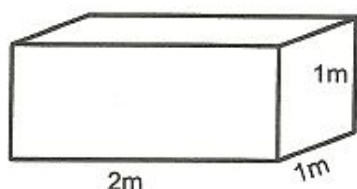


The barrel shown contains 50 litres of water when  $\frac{2}{3}$  full.

- (a) Calculate the volume of water it will hold when it is  $\frac{1}{2}$  full.

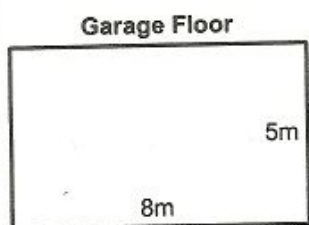
Answer.....(2)

- (b) When the barrel is full, half of the water is poured into the rectangular aquarium below.



Calculate the amount of water still needed to fill the aquarium.

Answer.....(3)



Garage Floor

Mr. Martin is in the process of tiling his garage floor as shown.

- (a) Calculate the area to be tiled in  $\text{cm}^2$ .

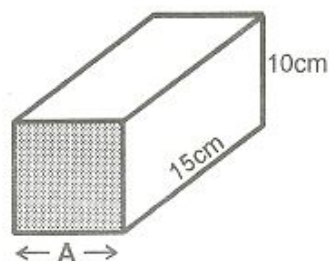
Answer.....(1)

- (b) If he is using a square tile of 20cm, how many tiles will he need for this garage?

Answer.....(2)

- (c) If the tiles are being sold at \$6.25 each, what will be the cost of the tiles needed for the garage if a discount of 6% is given?

Answer.....(2)



In the container shown, the shaded face is a square. The area of the shaded face is  $100\text{cm}^2$ .

- (a) What is the length of the side marked A?

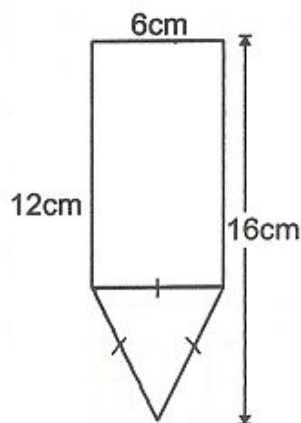
Answer.....(1)

- (b) Calculate the volume of the container.

Answer.....(2)

- (c) Calculate the amount of liquid that container will hold in litres.

Answer.....(2)



The compound shape is made up of a rectangle attached to an equilateral triangle.

- (a) Calculate the perimeter of the compound shape.

Answer.....(2)

- (b) Calculate the area of the compound shape.

Answer.....(3)