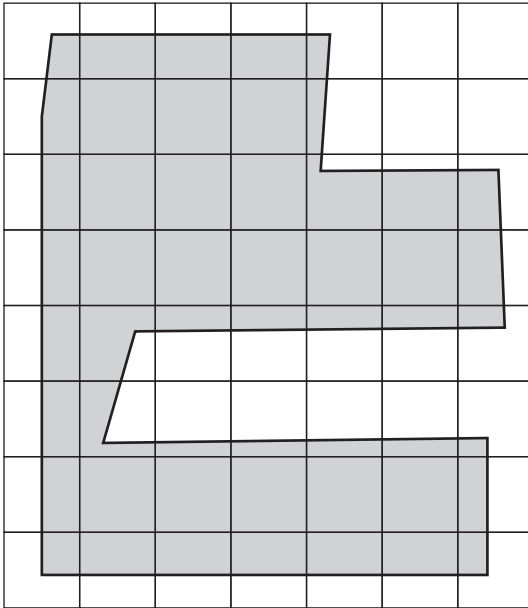


- 5 Mike wants to build two irregular-shaped flowerbeds. Mike first drew his designs on graph paper. Help Mike to estimate the area of each flowerbed in m^2 .

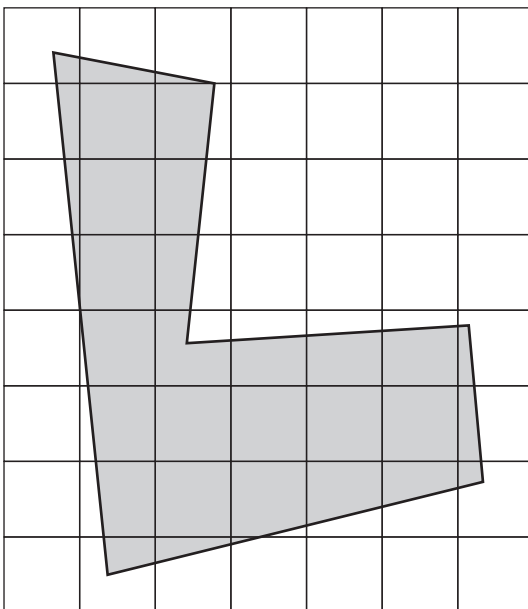
Each 1 cm by 1 cm square on the graph represents 1 m^2 on the ground.

a)



(3 marks)

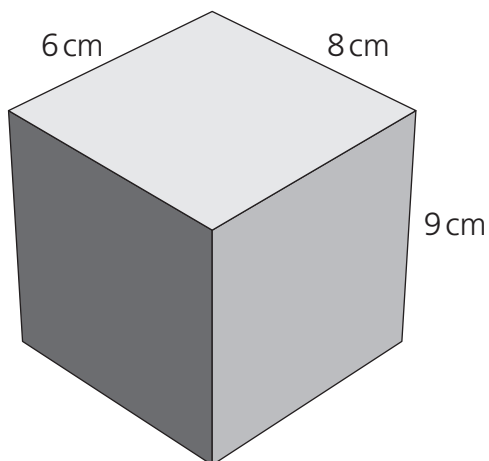
b)



(3 marks)

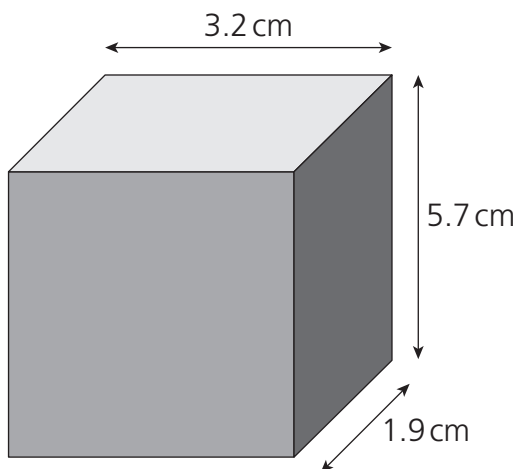
- 6 Calculate the volume of the shapes drawn below. Include the formula and show your full calculations.

a)



(3 marks)

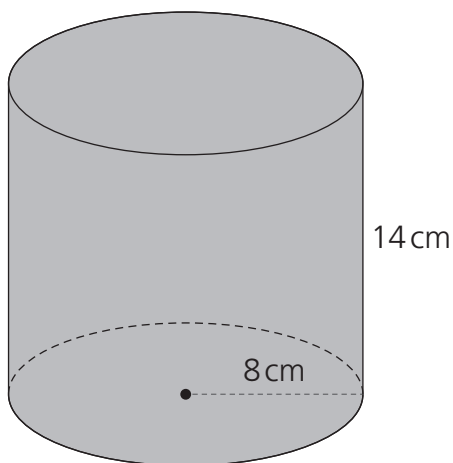
b)



(3 marks)

Use $\pi = 22/7$

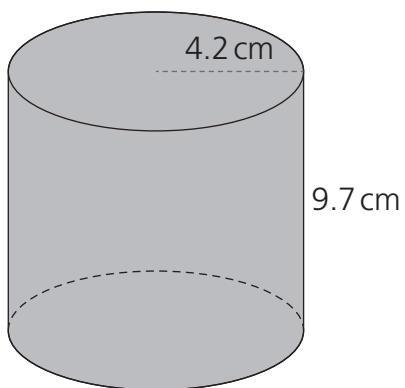
c)



(4 marks)

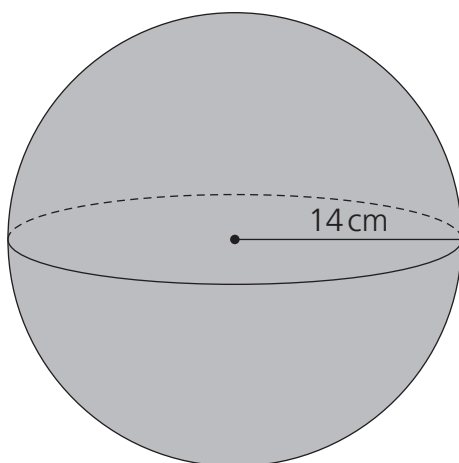
Use $\pi = 22/7$

d)



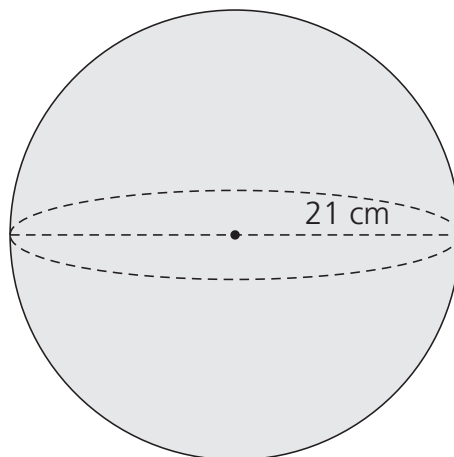
(4 marks)

e)



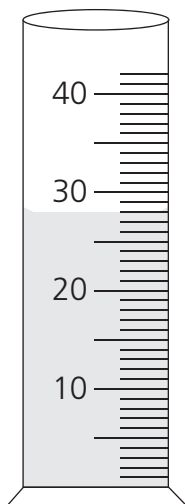
(4 marks)

f)

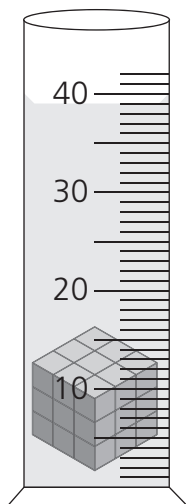


(4 marks)

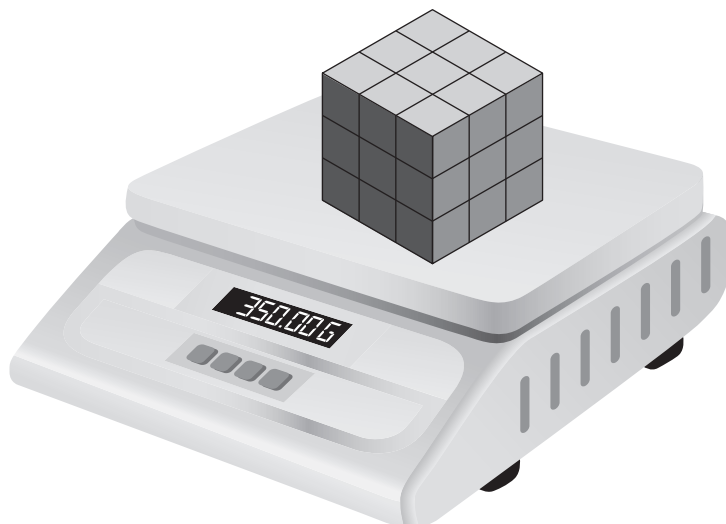
- 7** Sean measured the volume of some water before and after his friend's toy was put into the water. How much space did the toy take up?



1st cylinder



2nd cylinder



a) What is the initial volume of water? _____

b) What is the new volume after the toy was put in? _____

(2 marks)

c) Showing all your calculations, find the volume of the toy.

(3 marks)

d) From the right-hand diagram above, state the mass of the toy.

Mass = _____ g

(1 mark)

e) Using the formula below, calculate the density of the toy.

$$\text{Density} = \frac{\text{mass}}{\text{volume}} \quad \text{Density of toy} = \frac{\text{g}}{\text{cm}^3}$$

Density of toy = _____ g/cm³

(2 marks)