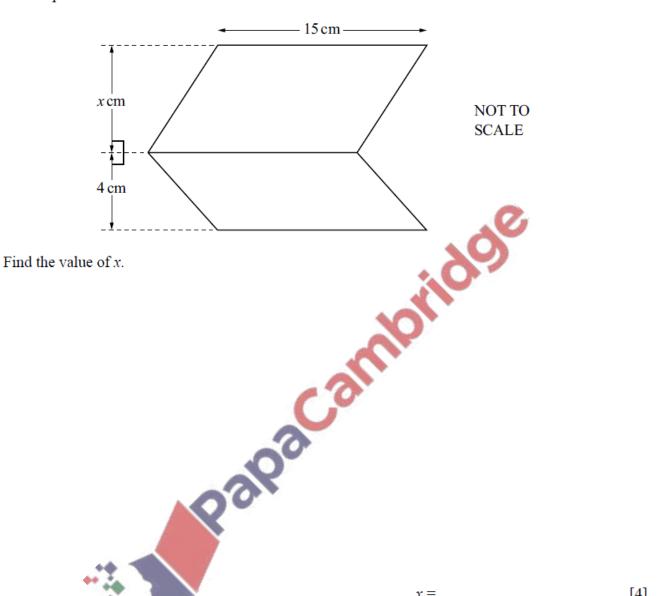
## Mensuration – 2025 Specimen IGCSE 0580 Math

## 1. Specimen/2025/Paper\_01/No14

The diagram shows a shape made from two different parallelograms. The shape has a total area of 210 cm<sup>2</sup>.



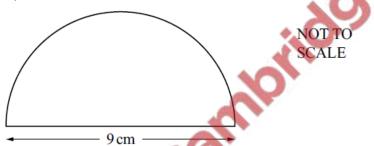
x = [4]

2. Specimen/2025/Paper\_02/No.5

Convert  $0.17 \,\mathrm{m}^2$  into  $\mathrm{cm}^2$ .

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3. Specimen/2025/Paper\_02/No.8



The diagram shows a semicircle with diameter 9 cm.

Calculate the total perimeter of this semicircle. Give your answer in exact form.

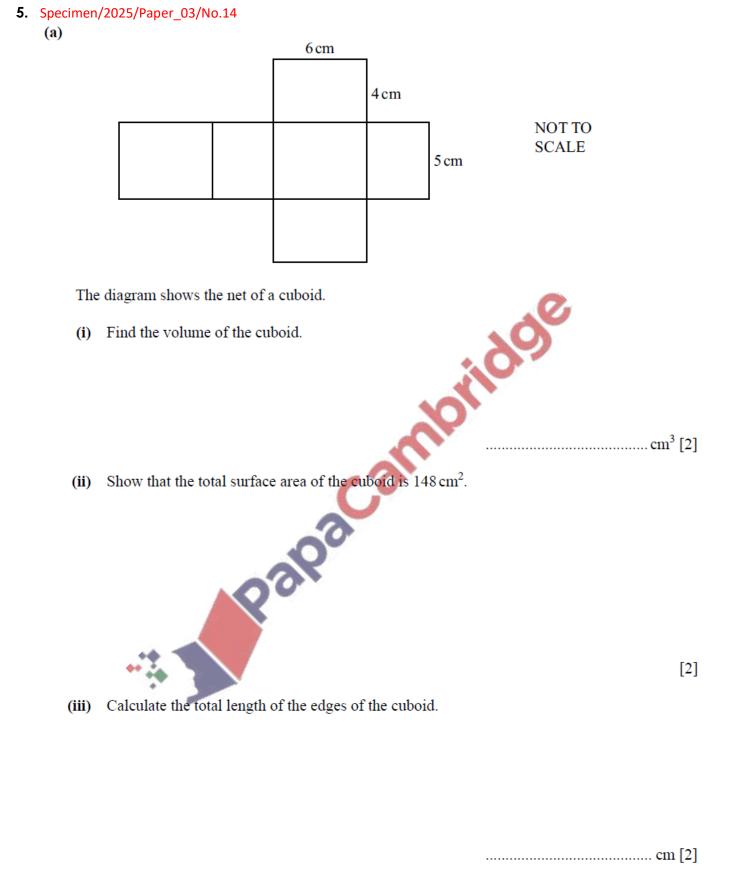


..... cm [3]

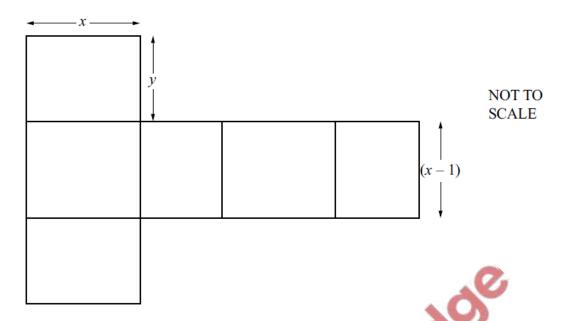
	Calculate the radius of the circle.
	cm [2]
(d)	The diameter of a different circle is 6.4 cm.
	Calculate the circumference of this circle. Give your answer in millimetres.  mm [3]
	Palpacain

**4.** Specimen/2025/Paper\_03/No.11(c)

(c) The area of the circle is  $43.5 \, \text{cm}^2$ .

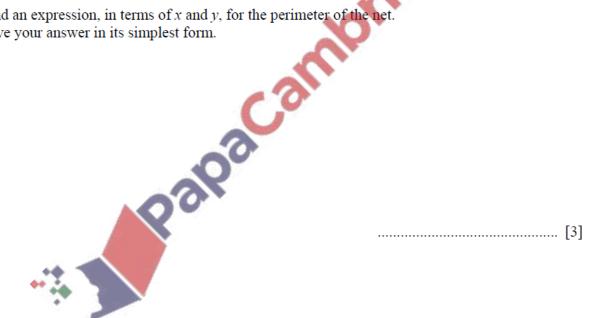


(b) In this part, all measurements are in centimetres.



This is the net of a cuboid with edges of length x, y and (x-1).

Find an expression, in terms of x and y, for the perimeter of the net. Give your answer in its simplest form.



6. Specimen/2025/Paper\_03/No.15

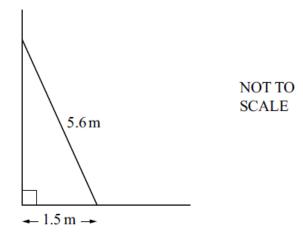
A sphere has a surface area of 177 cm<sup>2</sup>.

(a) Calculate the radius of the sphere.

..... cm [2]

(b) Calculate the volume of the sphere.

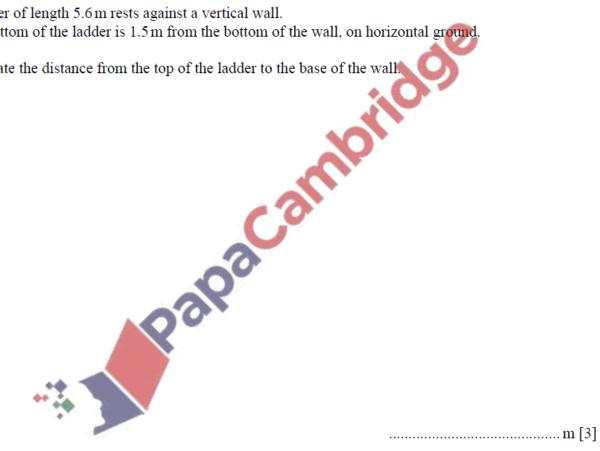
## **7.** Specimen/2025/Paper\_03/No.22



A ladder of length 5.6 m rests against a vertical wall.

The bottom of the ladder is 1.5 m from the bottom of the wall, on horizontal ground.

Calculate the distance from the top of the ladder to the base of the wall



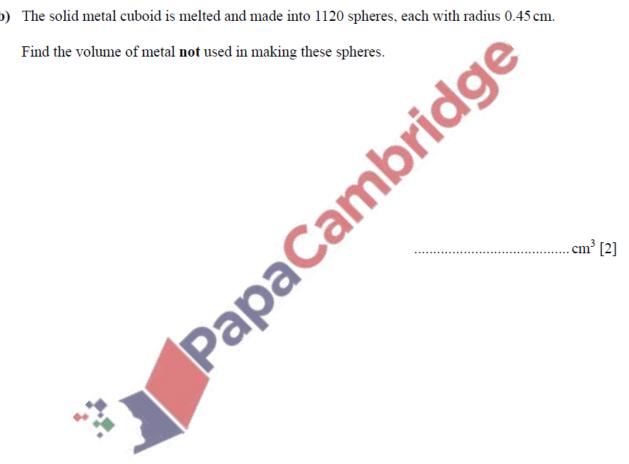
8. Specimen/2025/Paper\_04/No.6

A solid metal cuboid has a volume of 600 cm<sup>3</sup>.

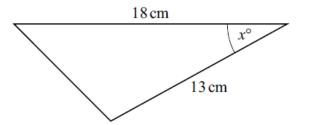
(a) The base of the cuboid is 10 cm by 12 cm.

Calculate the height of the cuboid.

(b) The solid metal cuboid is melted and made into 1120 spheres, each with radius 0.45 cm.



**9.** Specimen/2025/Paper\_04/No.17



NOT TO SCALE

The area of the triangle is  $50\,\mathrm{cm}^2$ .

Calculate the value of  $\sin x$ .

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$\sin x = \dots$	[2]

10. Specimen/2025/Paper\_04/No.19

The cross-section of a prism is an equilateral triangle of side 6 cm. The length of the prism is 20 cm.

Calculate the total surface area of the prism



......cm<sup>2</sup> [4]