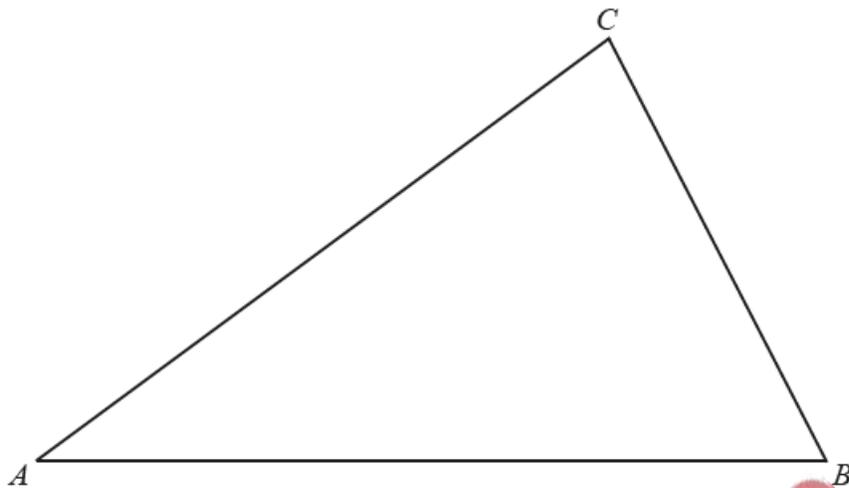
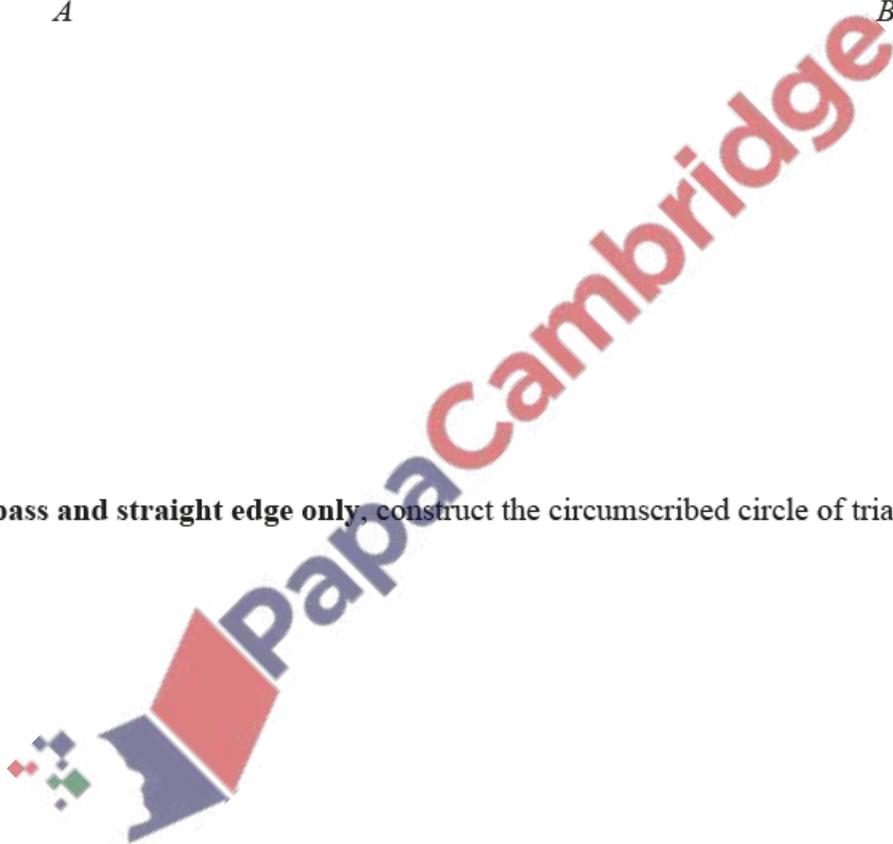


1. Nov/2022/Paper_23/No.10

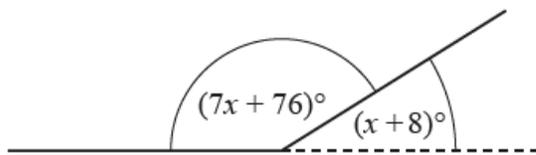


Using compass and straight edge only, construct the circumscribed circle of triangle ABC .

[4]



2. Nov/2022/Paper_23/No.11



NOT TO
SCALE

The diagram shows two sides of a regular polygon.

The interior angle of the polygon is $(7x + 76)^\circ$ and the exterior angle is $(x + 8)^\circ$.

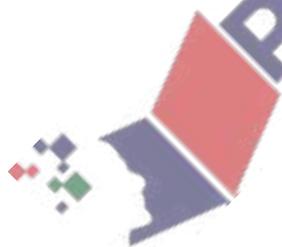
Find the number of sides of this polygon.

..... [4]

3. Nov/2022/Paper_23/No.14

A map has a scale of 1 : 200 000.

Find the area, in square kilometers, of a lake that has an area of 13 cm^2 on the map.



..... km^2 [2]

4. Nov/2022/Paper_23/No.18

Two bottles are mathematically similar.

The small bottle has a capacity of 270 ml and a height of 9 cm.

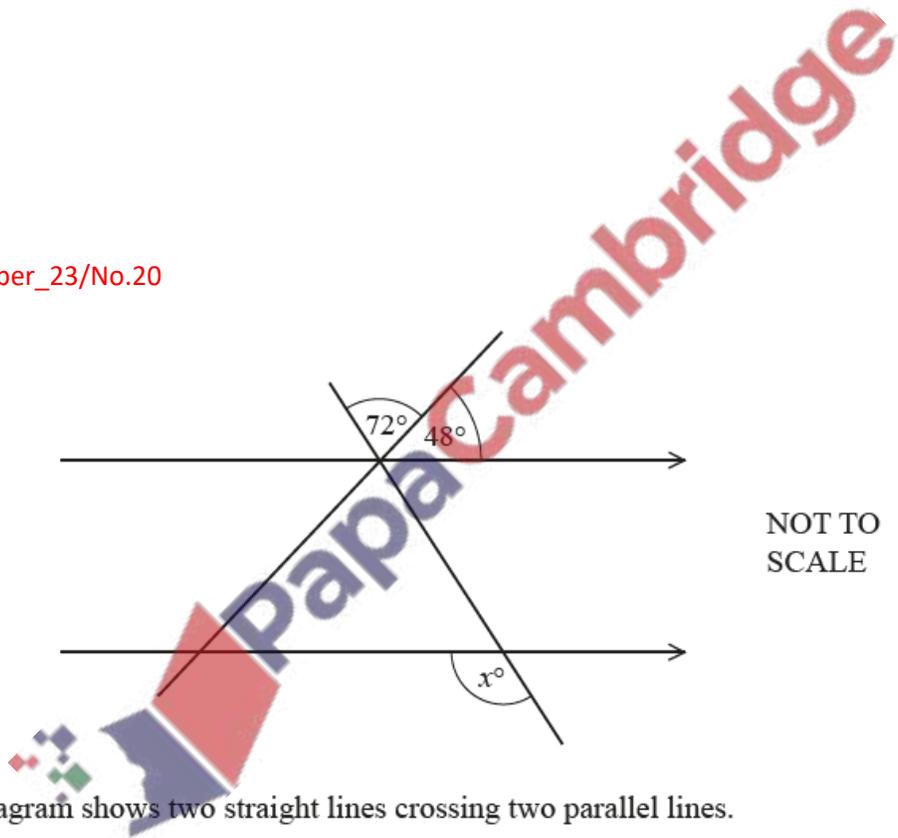
The large bottle has a capacity of 640 ml.

Work out the height of the large bottle.

..... cm [3]

5. Nov/2022/Paper_23/No.20

(a)

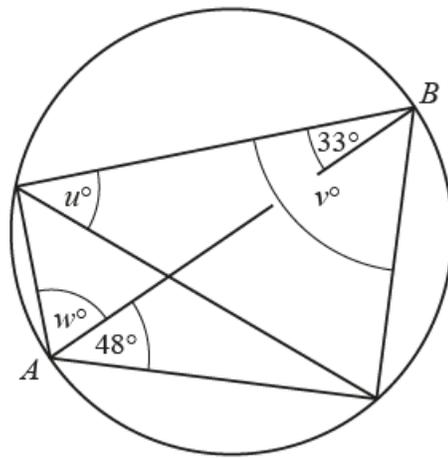


The diagram shows two straight lines crossing two parallel lines.

Work out the value of x .

$x =$ [2]

(b)



NOT TO
SCALE

The diagram shows a cyclic quadrilateral and its diagonals.
 AB is a diameter.

Work out the values of u , v and w .

$u =$

$v =$

$w =$ [3]

