2D Perimeters & Areas
Difficulty: Easy

Question Paper 2

Level	IGCSE
Subject	Maths (0580/0980)
Exam Board	CIE
Topic	Mensuration (Perimeters, Areas & Volumes)
Sub-Topic	2D Perimeters & Areas
Paper	Paper 2
Difficulty	Easy
Booklet	Question Paper 2

Time allowed: **31 minutes**

Score: **/24**

Percentage: **/100**

Grade Boundaries:

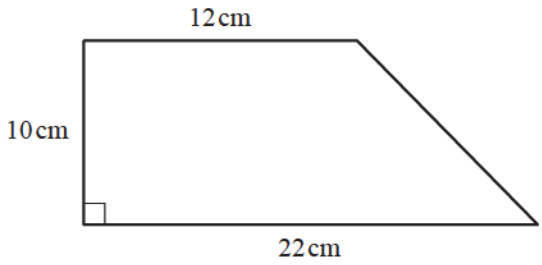
CIE IGCSE Maths (0580)

A*	A	B	C	D	E
>88%	76%	63%	51%	40%	30%

CIE IGCSE Maths (0980)

9	8	7	6	5	4	3
>94%	85%	77%	67%	57%	47%	35%

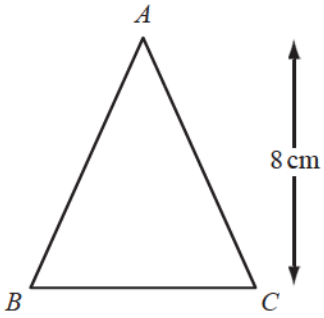
Question 1



NOT TO SCALE

Find the area of the trapezium. [2]

Question 2

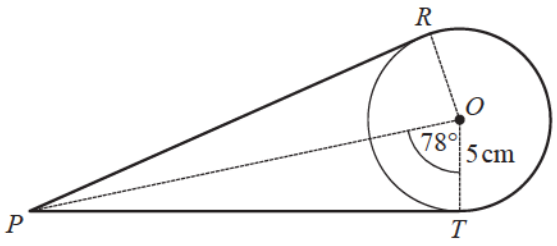


NOT TO SCALE

Triangle ABC has a height of 8 cm and an area of 42 cm^2.

Calculate the length of BC. [2]

Question 3



NOT TO SCALE

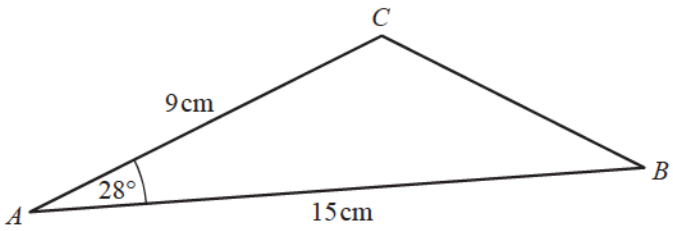
R and T are points on a circle, centre O, with radius 5 cm.
PR and PT are tangents to the circle and angle $POT = 78°$.

A thin rope goes from P to R, around the major arc RT and then from T to P.

Calculate the length of the rope.

[6]

Question 4



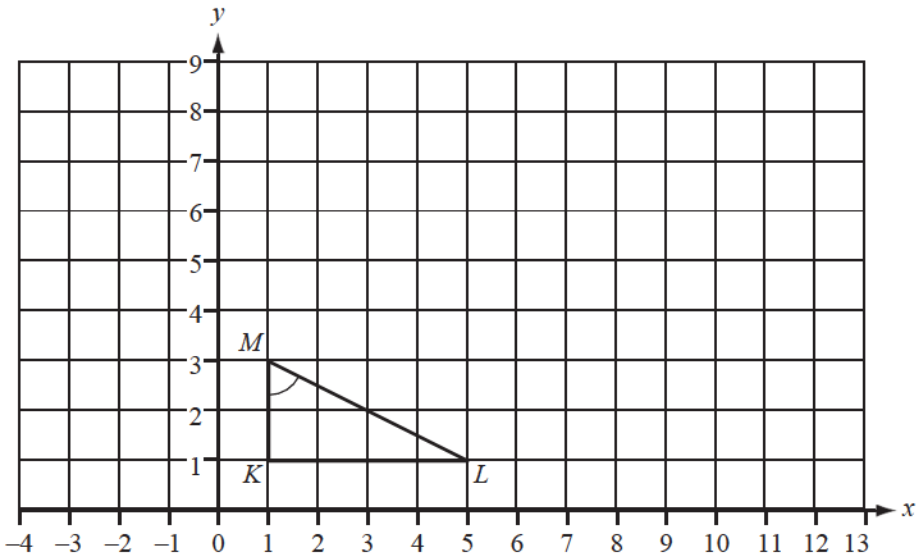
NOT TO SCALE

Calculate the area of triangle ABC.

[2]

Question 5

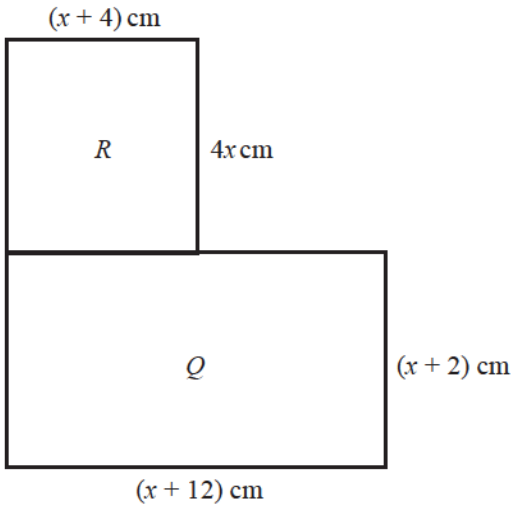
A large rectangular card measures 80 centimetres by 90 centimetres.
Maria uses **all** this card to make small rectangular cards measuring 40 **millimetres** by 15 **millimetres**.
Calculate the number of small cards. [2]



The triangle KLM is shown on the grid.

(a) Calculate angle KML. [2]

(b) On the grid, draw the shear of triangle KLM, with a shear factor of 3 and the x-axis invariant. [2]



NOT TO SCALE

(a) (i) Write down an expression for the area of rectangle R. [1]

(ii) Show that the total area of rectangles R and Q is $5x^2 + 30x + 24$ square centimetres. [1]

(b) The total area of rectangles R and Q is 64 cm^2.
Calculate the value of x correct to 1 decimal place. [4]