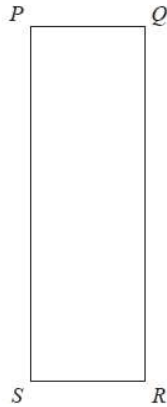
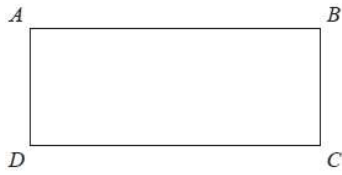


GCSE QUESTIONS

Q1. NON-CALCULATOR

Here are two rectangles.



$QR = 10 \text{ cm}$
 $BC = PQ$

The perimeter of $ABCD$ is 26 cm
 The area of $PQRS$ is 45 cm^2

Find the length of AB .

..... cm

(Total for question = 4 marks)

Q2. NON-CALCULATOR

The perimeter of a right-angled triangle is 72 cm.
 The lengths of its sides are in the ratio 3 : 4 : 5

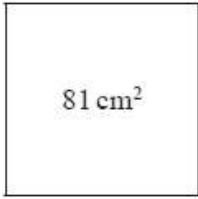
Work out the area of the triangle.

..... cm^2

(Total for question = 4 marks)

Q3. CALCULATOR ALLOWED

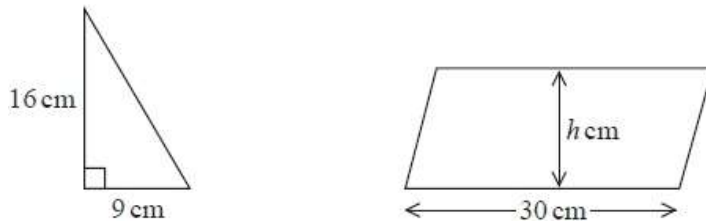
A square has an area of 81 cm^2



(a) Find the perimeter of the square.

..... cm
(2)

The diagram shows a right-angled triangle and a parallelogram.



The area of the parallelogram is 5 times the area of the triangle.
The perpendicular height of the parallelogram is h cm.

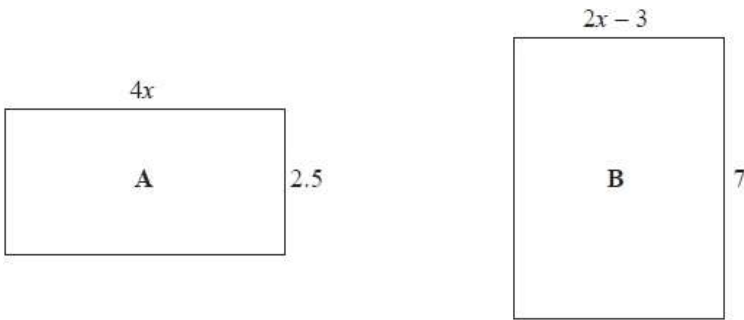
(b) Find the value of h .

$h =$

(3)
(Total for question = 5 marks)

Q4. CALCULATOR ALLOWED

Here are two rectangles.



All measurements are in centimetres.

The area of rectangle **A** is equal to the area of rectangle **B**.

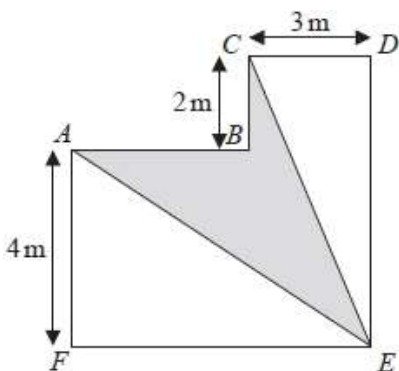
Work out the perimeter of rectangle **B**.

..... cm

(Total for question = 5 marks)

Q5. CALCULATOR ALLOWED

The diagram shows a shape *ABCDEF*.

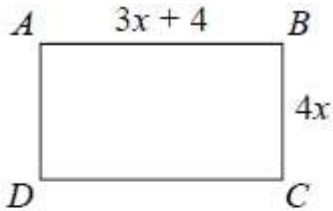


All the corners of the shape are right angles.
The perimeter of the shape is 28 m .

Work out the area of *ABCE* shown shaded on the diagram.

.....
 (Total for question = 5 marks)

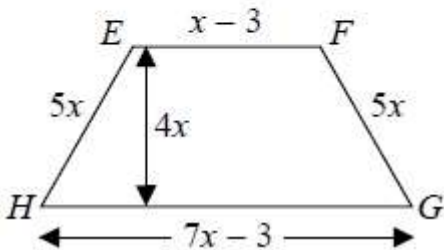
Q6. CALCULATOR ALLOWED



$ABCD$ is a rectangle.
 $EFGH$ is a trapezium.

All measurements are in centimetres.
 The perimeters of these two shapes are the same.

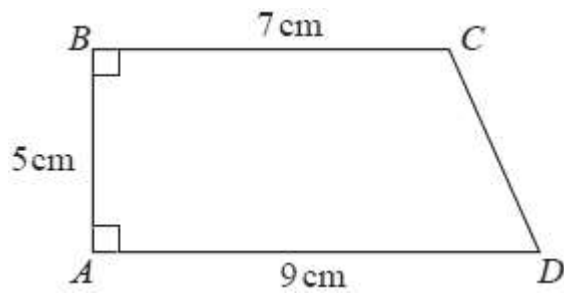
Work out the area of the rectangle.



..... cm²

(Total for question = 5 marks)

Q7. CALCULATOR ALLOWED



$ABCD$ is a trapezium.
A square has the same perimeter as this trapezium.
Work out the area of the square.
Give your answer correct to 3 significant figures.

..... cm^2

(Total for question is 5 marks)