

Name: _____

GCSE (1 – 9)

Area and Perimeter

Instructions

- Use **black** ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all your working out.**

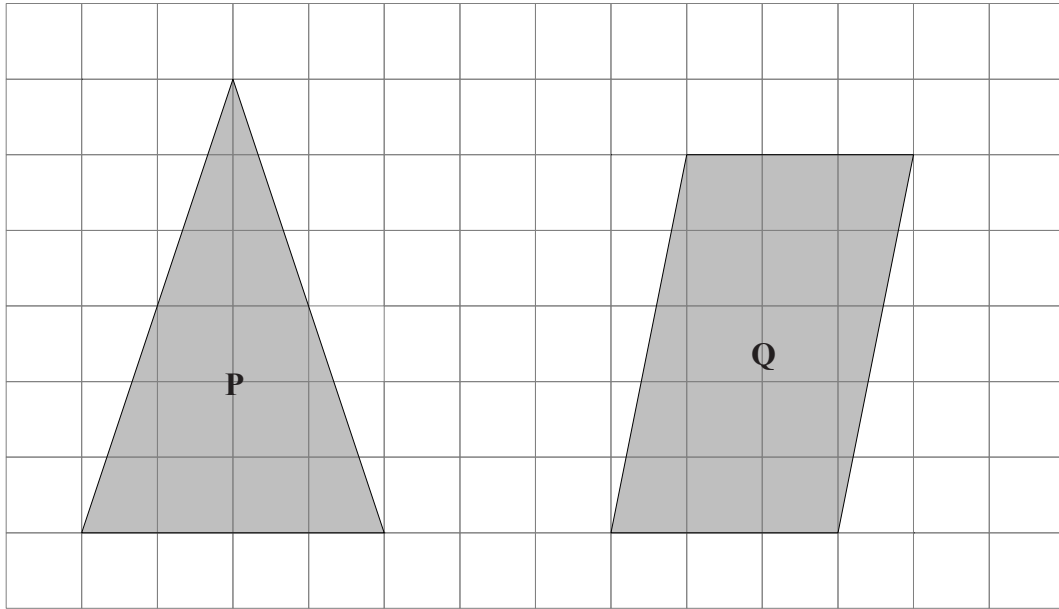
Information

- The marks for each question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end

1 The diagram shows two shapes on a centimetre grid.



(a) Find the area of shape **P**

..... cm²

(b) Write down the mathematical name for shape **Q**.

.....

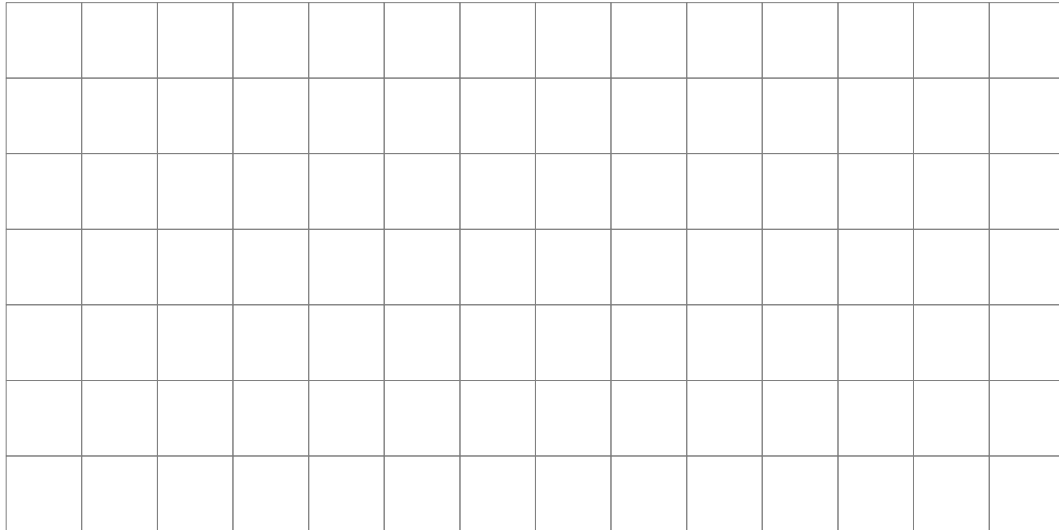
(c) Find the area of shape **Q**.

..... cm²

(Total for question 1 is 3 marks)

- 2 The length of a rectangle is two times the width of the rectangle.
The perimeter of the rectangle is 24 cm.

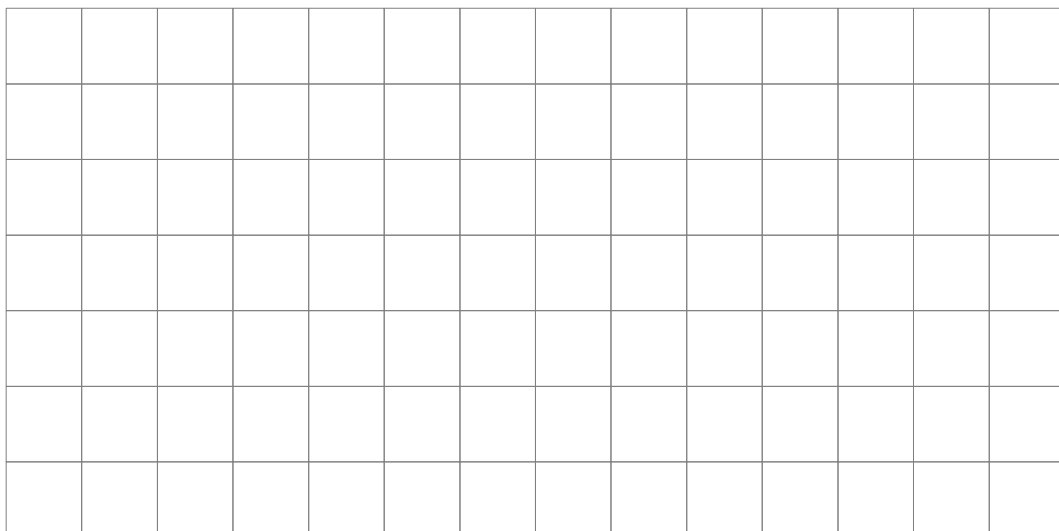
Draw the rectangle on the centimetre grid.



(Total for question 2 is 2 marks)

- 3 The length of a rectangle is three times the width of the rectangle.
The area of the rectangle is 48 cm².

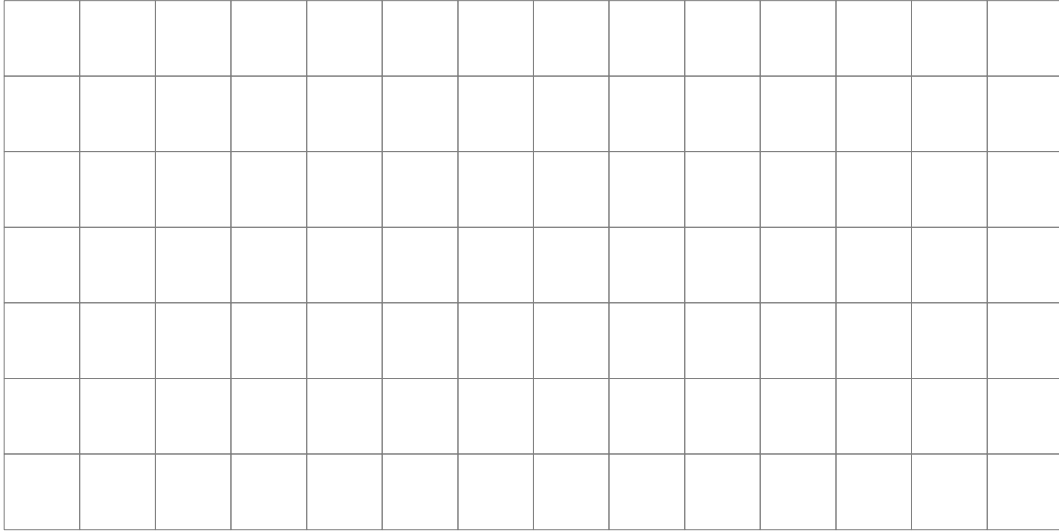
Draw the rectangle on the centimetre grid.



(Total for question 3 is 2 marks)

- 4 The base of a triangle is twice the height of the triangle.
The area of a triangle is 16 cm^2 .

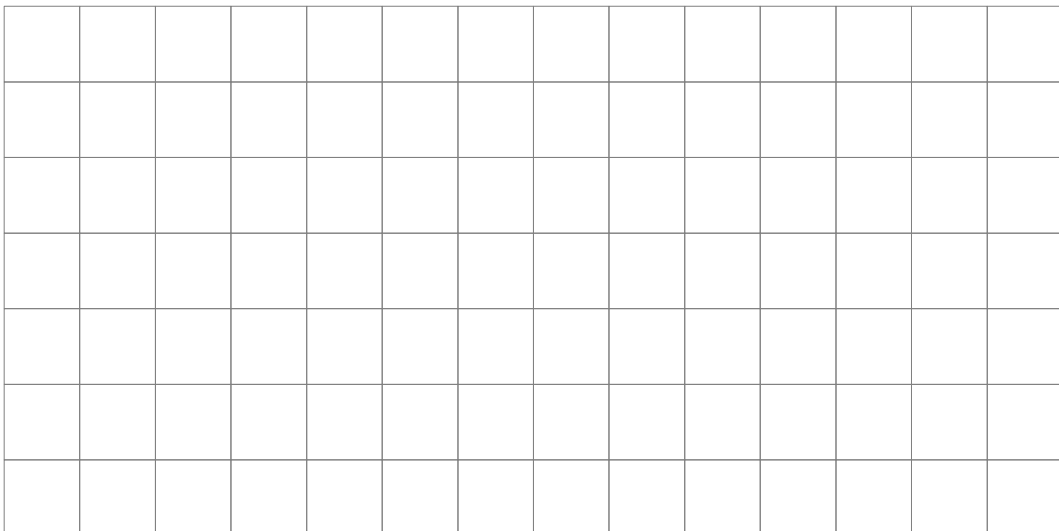
Draw the triangle on the centimetre grid.



(Total for question 4 is 2 marks)

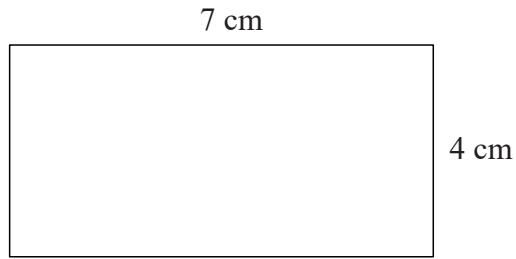
- 5 The base of a parallelogram is twice the perpendicular height of the parallelogram.
The area of the parallelogram is 50 cm^2 .

Draw the parallelogram on the centimetre grid.

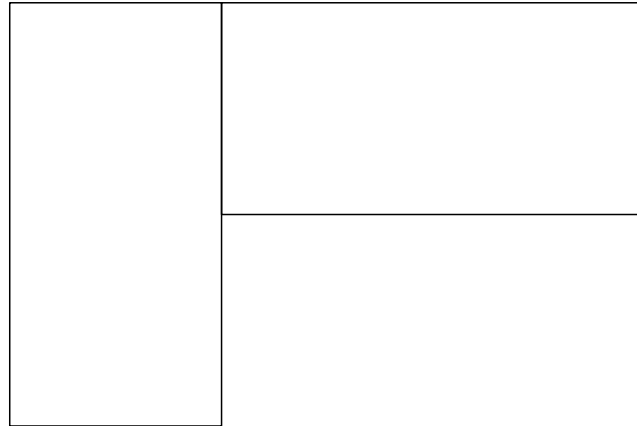


(Total for question 5 is 2 marks)

6 Here is a rectangle.



The six-sided shape below is made from two of these rectangles.

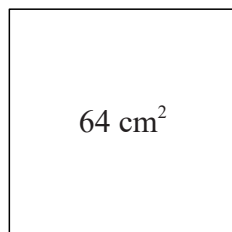


Work out the perimeter of this six-sided shape.

..... cm

(Total for question 6 is 3 marks)

7 A square has an area of 64 cm^2 .



Find the perimeter of the square.

..... cm

(Total for question 7 is 2 marks)

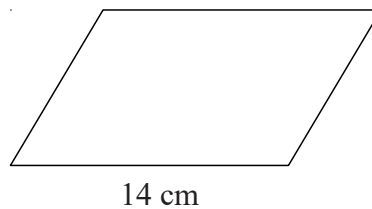
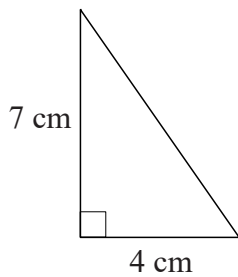
8 A square has a perimeter of 36 cm.

Find the area of the square.

..... cm²

(Total for question 8 is 2 marks)

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



The area of the parallelogram is four times the area of the triangle.

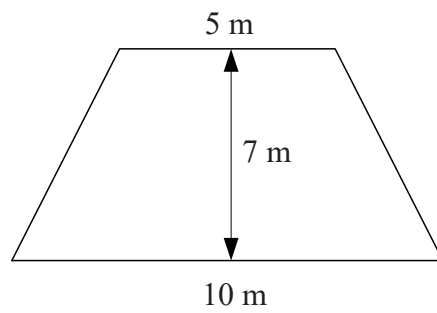
The perpendicular height of the parallelogram is h .

Find the value of h .

$h =$

(Total for question 9 is 3 marks)

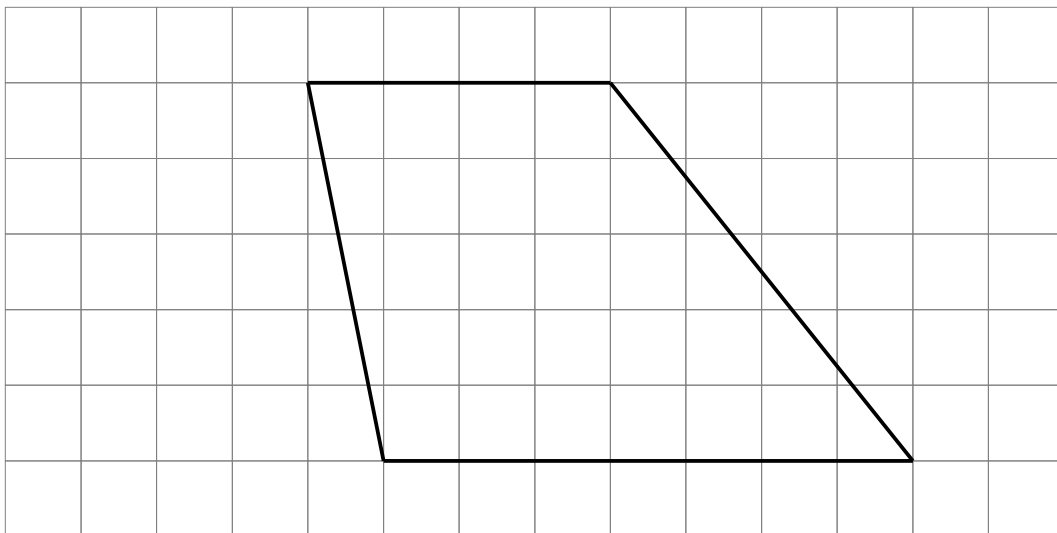
- 10 The diagram shows a garden in the shape of a trapezium.



Find the area of the garden.

.....
(Total for question 10 is 3 marks)

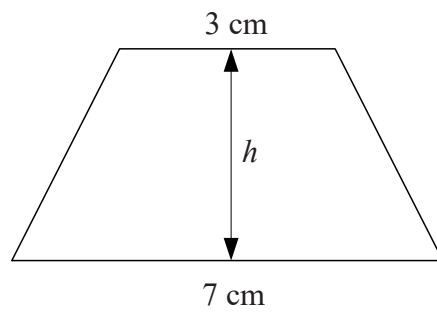
- 11 Here is a trapezium drawn on a centimetre grid.



Find the area of the trapezium.

..... cm²
(Total for question 11 is 2 marks)

- 12 The diagram shows a trapezium with an area of 30 cm^2 and a perpendicular height h cm.

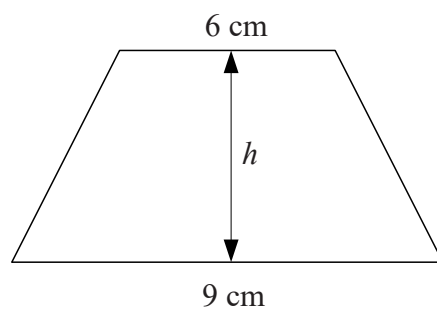


Find the value of h .

$$h = \dots\dots\dots$$

(Total for question 12 is 2 marks)

- 13 The diagram shows a trapezium with an area of 45 cm^2 and a perpendicular height h cm.



Find the value of h .

$$h = \dots\dots\dots$$

(Total for question 13 is 2 marks)
