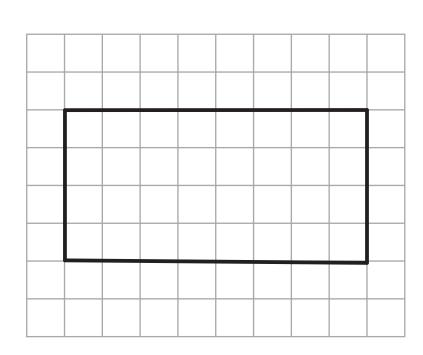
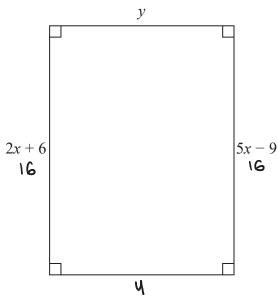
1. The length of a rectangle is twice as long as the width of the rectangle. The area of the rectangle is $32 \, \text{cm}^2$.

Draw the rectangle on the centimetre grid.



(Total for Question is 2 marks)

2. Here is a rectangle.



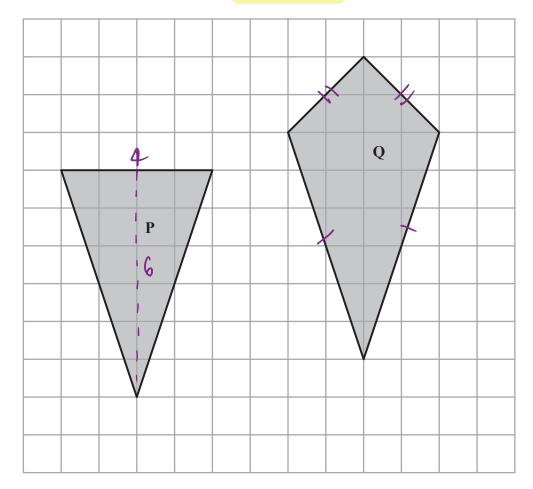
All measurements are in centimetres.

The area of the rectangle is $48 \, \text{cm}^2$.

Show that y = 3

$$2x + 6 = 5x - 9$$
 $-2x - 2x$
 $6 = 3x - 9$
 $+9 + 9$
 $15 = 3x$
 $-3 = x$

3. The diagram shows two shapes drawn on a centimetre grid.



(a) Find the area of shape P.

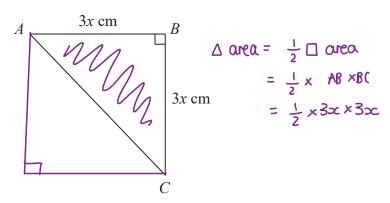
12 cm²

(b) Write down the mathematical name of quadrilateral **Q**.

Nite (1)

(Total for Question is 3 marks)

4. *ABC* is an isosceles right-angled triangle.



The area of the triangle is 162 cm²

Work out the value of x.

Area of
$$\triangle$$
 - Setting up an equation in x

$$3x \times 3x \times \frac{1}{2} = 162$$

$$\frac{9}{2}x^2 = 162$$

$$x^2 = 162 \times 2$$

$$x = \sqrt{36}$$

$$x = \sqrt{36}$$

$$x = \sqrt{36}$$

$$x = \sqrt{36}$$

$$x = 6$$

The equation in x

$$x = \sqrt{36}$$

$$x = \sqrt{36}$$

$$x = \sqrt{36}$$

$$x = \sqrt{36}$$

$$x = 6$$

The equation in x

$$x = \sqrt{36}$$

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The equation in x

$$x = \sqrt{36}$$

$$x = \sqrt{36}$$

$$x = \sqrt{36}$$

$$x = 6$$

The equation in x

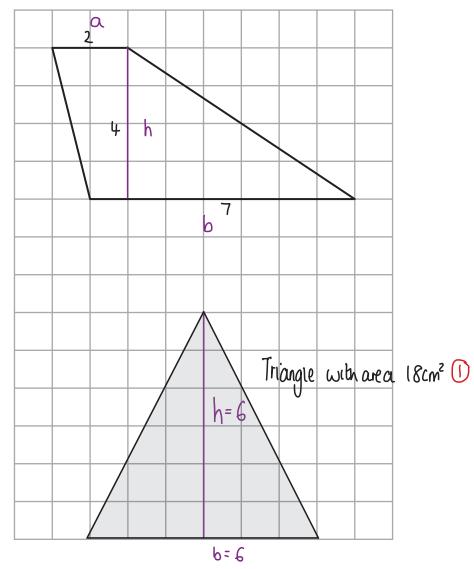
$$x = \sqrt{36}$$

$$x = \sqrt{36}$$

$$x = 6$$

(Total for Question is 3 marks)

5. Here is a trapezium drawn on a centimetre grid.



On the grid, draw a triangle equal in area to this trapezium.

Area of Triangle =
$$18 = \frac{1}{2}bh$$

 $bh = 36$

The base and height must multiply to get 36 = a factor pair of 36

(Total for Question is 2 marks)