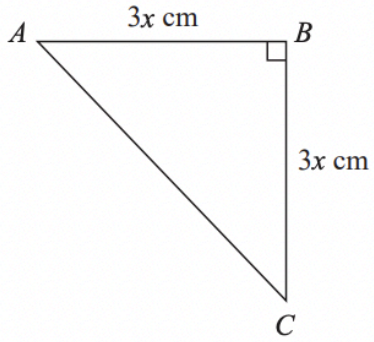
Q1 June 2018

17 ABC is an isosceles right-angled triangle.



The area of the triangle is $162\,\text{cm}^2$

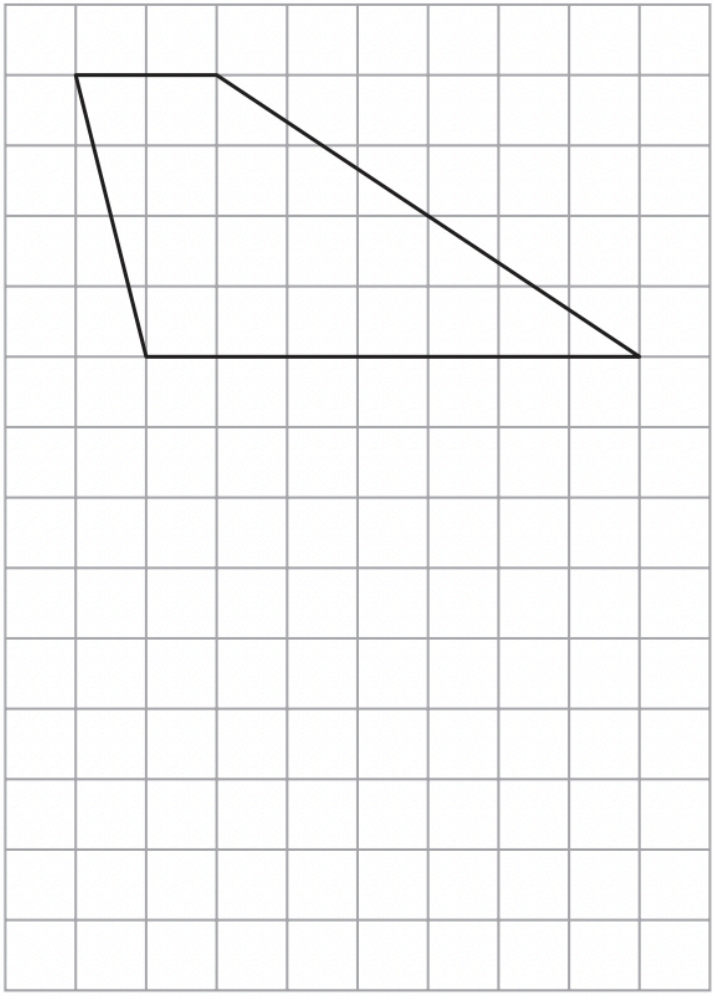
Work out the value of x.

$x =$ .....

(Total for Question 17 is 3 marks)

Q2 June 2018

21 Here is a trapezium drawn on a centimetre grid.

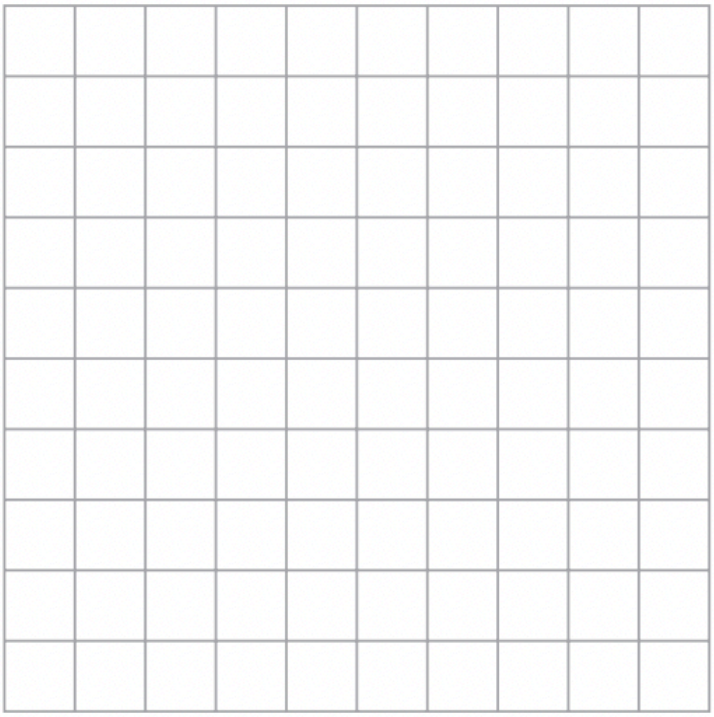


On the grid, draw a triangle equal in area to this trapezium.

(Total for Question 21 is 2 marks)

Q3 June 2022

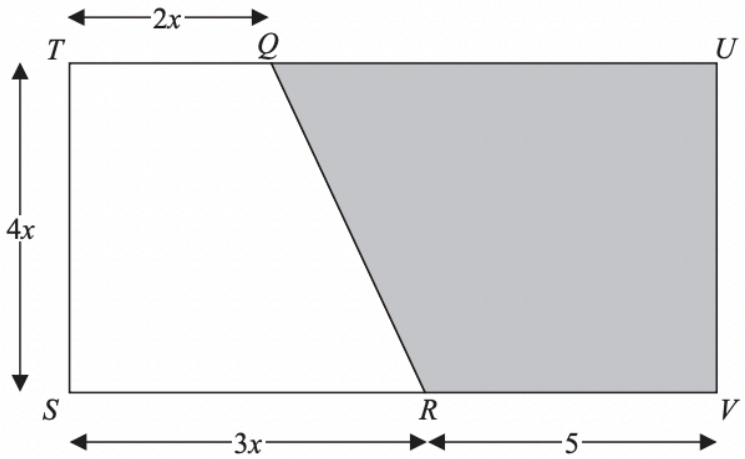
16 On the centimetre grid, draw an isosceles triangle with an area of $12\,cm^2$



(Total for Question 16 is 2 marks)

Q4 June 2022

28 The diagram shows rectangle $STUV$.
TQU and SRV are straight lines.
All measurements are in cm.



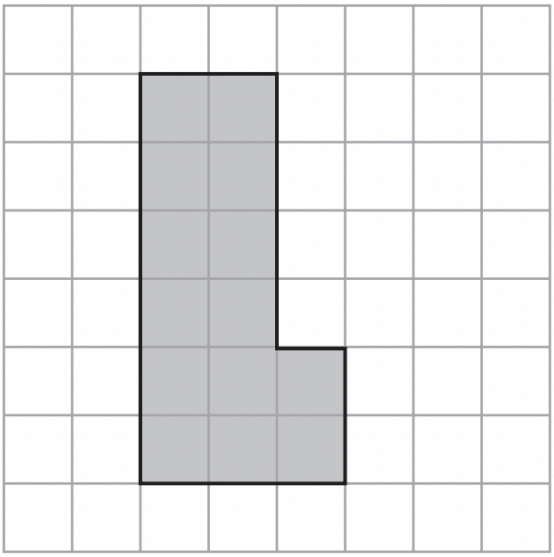
The area of trapezium $QUVR$ is A cm^2

Show that $A = 2x^2 + 20x$

(Total for Question 28 is 3 marks)

Q5 June 2023

6 The diagram shows a shape on a centimetre grid.



(a) Find the area of the shape.

..... cm^2

(1)

(b) Find the perimeter of the shape.

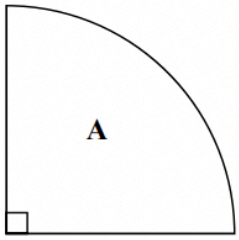
..... cm

(1)

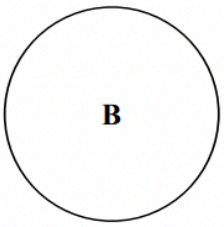
(Total for Question 6 is 2 marks)

Q6 Nov 2019

30 **A** is in the shape of a quarter circle of radius 15 cm.
B is in the shape of a circle.



15 cm



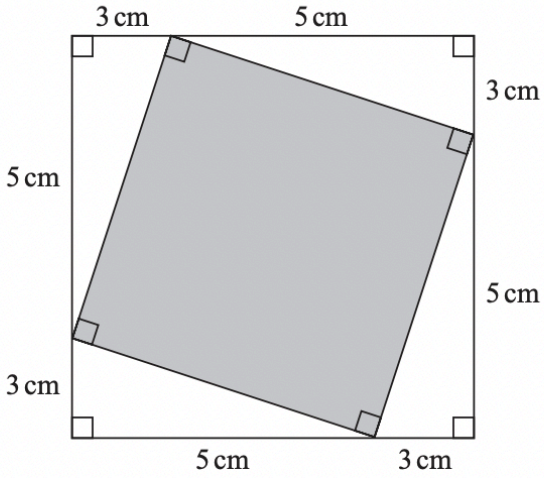
The area of **A** is 9 times the area of **B**.

Show that the radius of **B** is 2.5 cm.

(Total for Question 30 is 3 marks)

Q7 Nov 2021

19 This diagram shows two squares.



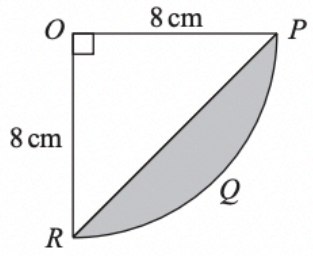
Work out the area of the square shown shaded in the diagram.

.....

(Total for Question 19 is 4 marks)

Q8 Nov 2021

27 The diagram shows a sector $OPQR$ of a circle, centre O and radius 8 cm.



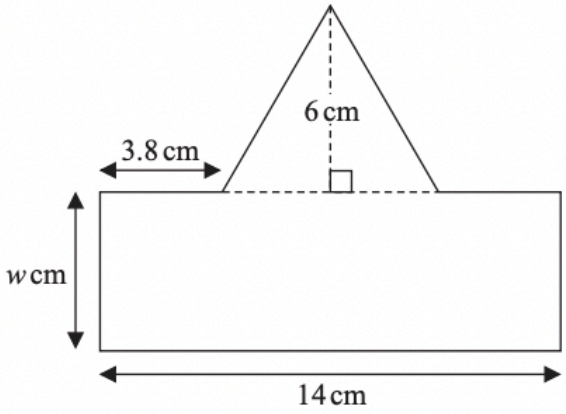
OPR is a triangle.

Work out the area of the shaded segment PQR.
Give your answer correct to 3 significant figures.

..... cm^2

(Total for Question 27 is 4 marks)

18 Here is a shape made from a rectangle and a triangle.



The shape has exactly one line of symmetry.

The area of the rectangle is 3.5 times the area of the triangle.
The width of the rectangle is w cm.

Work out the value of w.
You must show all your working.

$w =$ .....

(Total for Question 18 is 5 marks)