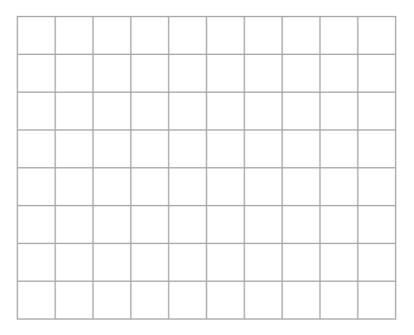
Autumn 2017 Paper 1 Q8

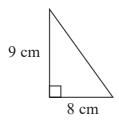
1 The length of a rectangle is twice as long as the width of the rectangle. The area of the rectangle is 32 cm².

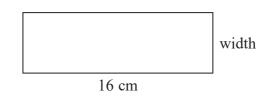
Draw the rectangle on the centimetre grid.



(Total for Question 1 is 2 marks)

2 Here are a triangle and a rectangle.





The area of the rectangle is 6 times the area of the triangle.

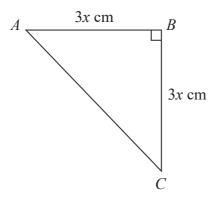
Work out the width of the rectangle.

.....c

(Total for Question 2 is 4 marks)

Summer 2018 Paper 3 Q17

3 ABC is an isosceles right-angled triangle.



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

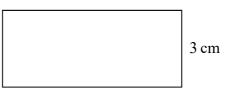
Work out the value of x.

v	=																

(Total for Question 3 is 3 marks)

Autumn 2019 Paper 3 Q14

4	T T			
4	Here	15	а	rectangle.
•	11010	10	u	rectangle.



7 cm

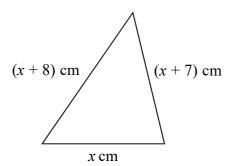
Coby has to find the perimeter of this rectangle.

He writes,

Perimeter = 7×3

(a) What mistake has Coby made?

Here is a triangle.



Iram solves a problem about this triangle to find the value of x.

Her answer is

$$x = -2$$

(b) Explain why Iram's an	swer must be wrong.		

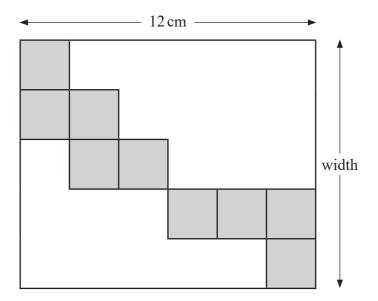
(1)

(1)

(Total for Question 4 is 2 marks)

Summer 2019 Paper 2 Q13

5 The diagram shows nine identical squares inside a rectangle.



The length of the rectangle is 12 cm.

Work out the width of the rectangle.

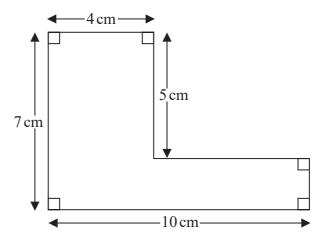
cm

(Total for Question 5 is 3 marks)

6	A garden is in the shape of a rectangle 90 m by 60 m.	<i>Summer 2019 I</i> 90 m	Paper 2 Q15
U		90 III	
	Flowers are grown in 40% of the garden. The rest of the garden is grass.		60 m
	Work out the area of the garden that is grass.		ou m
			m ²
	(**	Total for Question 6 is 4 mark	s)

Summer 2020 Paper 3 Q13

7



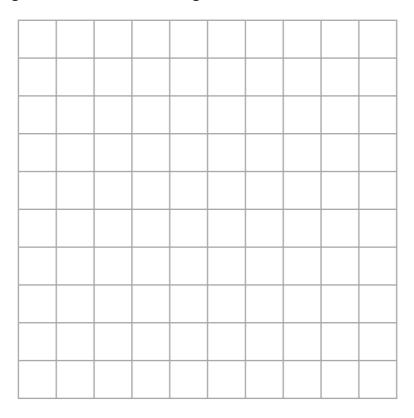
Work out the perimeter of this shape.

.....cn

(Total for Question 7 is 2 marks)

Summer 2022 Paper 3 Q16

8 On the centimetre grid, draw an isosceles triangle with an area of 12 cm²



(Total for Question 8 is 2 marks)

Autumn 2017 Paper 3 Q24

9	Here is a rectangle.			Autumn 2017 1 uper .	J Q24
	The length of the rectangle is 7 cm long	er than the widt	h of the rectangle.		
	4 of these rectangles are used to make the				
	G				
	<u> </u>				
	The perimeter of the 8-sided shape is 70)cm.			
	Work out the area of the 8-sided shape.				
					cm ²
			(Total for Quest	ion 9 is 5 marks)	

Autumn 2018 Paper 2 Q13

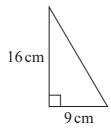
10 A square has an area of $81\,\text{cm}^2$

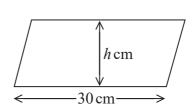
81 cm²

(a) Find the perimeter of the square.

(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 $h \, \text{cm}$.

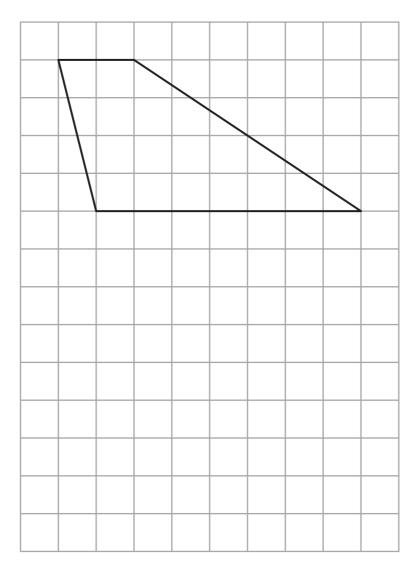
(b) Find the value of *h*.

h = (3)

(Total for Question 10 is 5 marks)

Summer 2018 Paper 3 Q21

11 Here is a trapezium drawn on a centimetre grid.



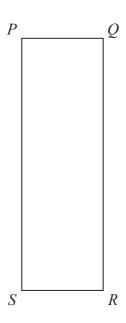
On the grid, draw a triangle equal in area to this trapezium.

(Total for Question 11 is 2 marks)

12	Here are two squares, A and B .
	A B
	The length of the side of square A is 50% of the length of the side of square B .
	Express the area of the shaded region of square A as a percentage of the area of square B .
	Express the area of the shaded region of square A as a percentage of the area of square B .
	(Total for Question 12 is 3 marks)

13 Here are two rectangles.





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

 $BC = PQ$

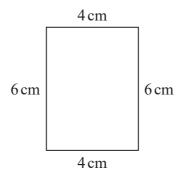
The perimeter of ABCD is 26 cm The area of PQRS is 45 cm²

Find the length of AB.

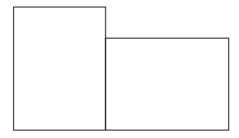
.....cm

(Total for Question 13 is 4 marks)

	**			. 4
14	Here	15	а	rectangle.
	11010	10	ч	rectangle.



The 6-sided shape below is made from two of these rectangles.



Work out the perimeter of this 6-sided shape.

..... c1

(Total for Question 14 is 3 marks)

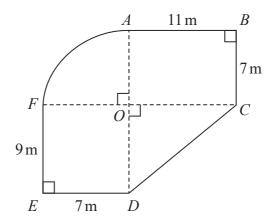
Autumn 2022 Paper 2 Q21

15 The diagram shows a plan of Jason's garden.

ABCO and DEFO are rectangles.

CDO is a right-angled triangle.

AFO is a sector of a circle with centre O and angle $AOF = 90^{\circ}$



Jason is going to cover his garden with grass seed.

Each bag of grass seed covers 14 m² of garden.

Each bag of grass seed costs £10.95

Work out how much it will cost Jason to buy all the bags of grass seed he needs.

£.....

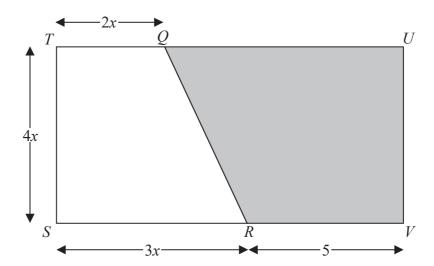
	Summer 2022	Paper 2 Q24
16	Festival A will be in a rectangular field with an area of 80000m^2 The greatest number of people allowed to attend Festival A is 425	
	Festival B will be in a rectangular field 700 m by 2000 m. The greatest number of people allowed to attend Festival B is 6750	
	The area per person allowed for Festival B is greater than the area per person allowed for Festival A.	
	(a) How much greater? Give your answer correct to the nearest whole number.	
		m ²
	Callum says,	(4)
	"300 cm ² is the same as 3 m ² because there are 100 cm in 1 m so you divide by 100"	
	Callum's method is wrong. (b) Explain why.	
		(1)
	(Total for Question 16 is 5 ma	rks)

Summer 2022 Paper 3 Q28

17 The diagram shows rectangle STUV.

TQU and SRV are straight lines.

All measurements are in cm.



The area of trapezium QUVR is $A \text{ cm}^2$

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