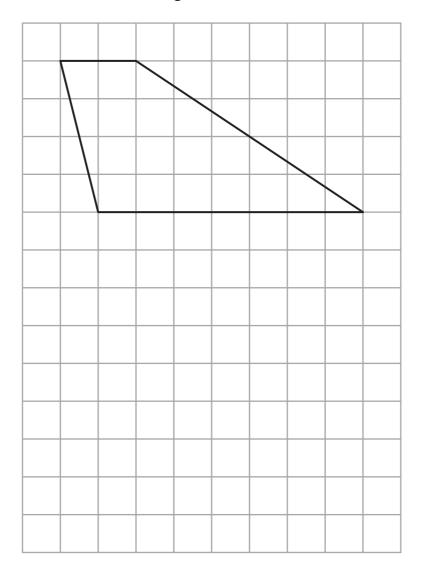
1	Here is a rectangle.	<u>Autumn 2017 Paper 3 Q6</u>
	The length of the rectangle is 7 cm longer than the width of the rectangle.	
	4 of these rectangles are used to make this 8-sided shape.	
	4 of these rectangles are used to make this o stated shape.	
	The perimeter of the 8-sided shape is 70 cm.	
	Work out the area of the 8-sided shape.	
		cm <sup>2</sup>
	(Total for Question 1 i	s 5 marks)

2 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.  Cm²  (Total for Question 2 is 4 marks)	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.			
Work out the area of the triangle.	Work out the area of the triangle.	2	The perimeter of a right-angled triangle is 72 cm. The lengths of its sides are in the ratio 3:4:5	<u>Summer 2018 Paper 1 Q8</u>
$= \cdots = \cdots$	cm <sup>2</sup>			
			Work out the area of the triangle.	
				cm <sup>2</sup>
(Total for Question 2 is 4 marks)	(Total for Question 2 is 4 marks)			
				(Total for Question 2 is 4 marks)

Summer 2018 Paper 3 Q3

3 Here is a trapezium drawn on a centimetre grid.

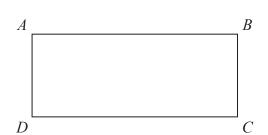


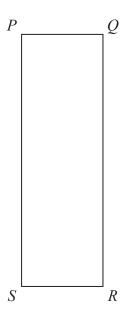
On the grid, draw a triangle equal in area to this trapezium.

(Total for Question 3 is 2 marks)

Summer 2019 Paper 1 Q7

4 Here are two rectangles.





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

The perimeter of ABCD is 26 cm The area of PQRS is 45 cm<sup>2</sup>

Find the length of AB.

.....cn

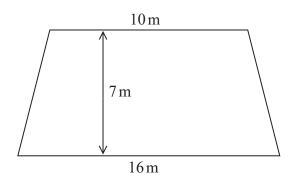
(Total for Question 4 is 4 marks)

Summer 2020 Paper 3 Q4

5	Maisie knows that she needs 3 kg of grass seed to make a rectangular lawn 5 m by 9	111.		
	Grass seed is sold in 2 kg boxes.			
	Maisie wants to make a rectangular lawn 10 m by 14 m. She has 5 boxes of grass seed.			
	(a) Has Maisie got enough grass seed to make a lawn 10 m by 14 m? You must show all your working.			
		(4)		
	Maisie opens the 5 boxes of grass seed.			
	She finds that 4 of the boxes contain 2 kg of grass seed.  The other box contains 1 kg of grass seed.			
	(b) Does this affect whether Maisie has enough grass seed to make her lawn? Give a reason for your answer.			
	- -			
		(1)		
	(Total for Question 5 is 5 marks)			

Autumn 2018 Paper 2 Q5

6 The diagram shows a floor in the shape of a trapezium.





John is going to paint the floor.

Each 5 litre tin of paint costs £16.99 1 litre of paint covers an area of  $2 \text{ m}^2$ 

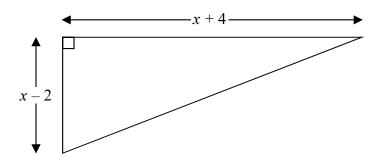
John has £160 to spend on paint.

Has John got enough money to buy all the paint he needs? You must show how you get your answer.

(Total for Question 6 is 5 marks)

Autumn 2019 Paper 1 Q14

7 The diagram shows a right-angled triangle.



All the measurements are in centimetres.

The area of the triangle is 27.5 cm<sup>2</sup>

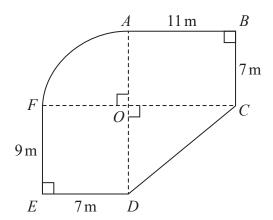
Work out the length of the shortest side of the triangle. You must show all your working.

.....cm

Autumn 2022 Paper 1 Q4

8 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  $14 \,\mathrm{m}^2$  of garden. Each bag of grass seed costs £10.95

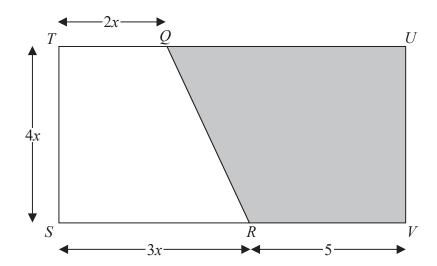
Work out how much it will cost Jason to buy all the bags of grass seed he needs.

£.....

^		<u>mer 2022 Paper 2 Q4</u>
9	Festival A will be in a rectangular field with an area of 80 000 m <sup>2</sup> 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.	d
	(a) How much greater? Give your answer correct to the nearest whole number.	
		m
	Callum says,	(4)
	"300 cm <sup>2</sup> is the same as 3 m <sup>2</sup> because there are 100 cm in 1 m so you divide by 10	0"
	Callum's method is wrong.	
	(b) Explain why.	
		(1)
	(Total for Question 9 is 5	marks)

Summer 2022 Paper 3 Q7

10 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  $A = 2x^2 + 20x$