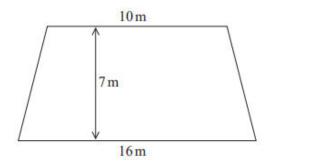
AREA OF COMPOUND SHAPES

Pearson Edexcel - Thursday 8 November 2018 - Paper 2 (Calculator) Foundation Tier

1.

24 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 m²

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.

Pearson Edexcel - Wednesday 8 November 2017 - Paper 3 (Calculator) Foundation Tier

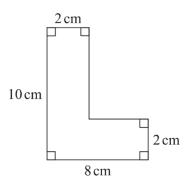
2.

24 Here is a rectangle.	
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.
The perimeter of the 8-sided shape is 70 cm.	
Work out the area of the 8-sided shape.	
	cm ²
	(Total for Question 24 is 5 marks)

Pearson Edexcel – Specimen 1 - Paper 1 (Non-Calculator) Foundation Tier

3.

16

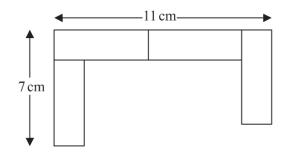


Work out the area of the shape.

cm²

(Total for Question 16 is 2 marks)

- 4.
- 23 A pattern is made using identical rectangular tiles.



Find the total area of the pattern.

	am ²
	. cm ²

(Total for Question 23 is 4 marks)

OCR – Tuesday 03 November 2020- Morning - Paper 1 (Calculator) Foundation Tier

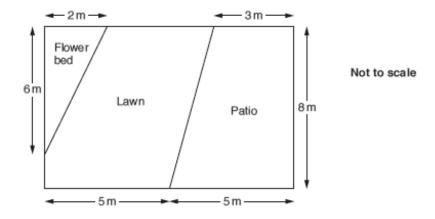
5.

25		142.2[0] with correct working	6	M1 for 36 ² or 1296	Correct working requires M1 AND M1 AND M1
				M1 for $k \times \pi \times 18^2$ oe where $k = \frac{1}{2}$, 1, 1½ or 3	M2 implied by 2822 to 2823.02 or M1 implied by 1526 to 1527.02, 1017 to 1018.008, 508 to 509.004,
	Ш			AND	3051 to 3054.024, 162π, 324π, 486π rot to at least nearest integer
	Ш			M1 for their area × 30	their area cannot be 36 and M1 implied by 84660 to 84 690.6 or 84.66 to 84.7
				M1 for their mass ÷ 1000 and ÷ 10 or counting up in 10 000s to their mass	their mass is attempt at (rectangle and circle(s)) × 30, M1 implied by 8.46 to 8.47
	ш			AND	
	Ш			M1 for their 9 × 15.8	their 9 dep. on fourth M1 scored with a rounding up to next integer
	Ш			If 0, 1 or 2 scored instead award \$C3 for answer of 142.2[0] with insufficient working	
				If 0 or 1 scored instead award SC2 for 2822 to 2823.02	
				If 0 scored award SC1 for 1526 to 1527.02, 1017 to 1018.008, 508 to 509.004, 3051 to 3054.024, 162π , 324π , 486π rot to at least nearest integer	

OCR Monday 6 November 2017 – Morning (Calculator) Foundation Tier

6.

9 The diagram represents a rectangular garden of length 10m and width 8m. The flower bed is a triangle and the patio is a trapezium. The rest of the garden is lawn.

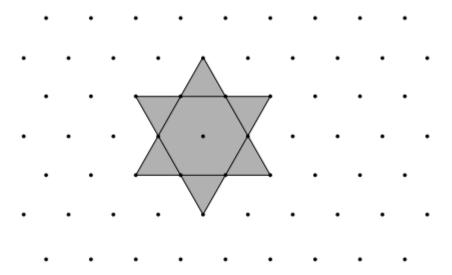


Work out the area of the lawn.

Pearson Edexcel – Sample Papers - Paper 3 (Calculator) Foundation Tier

7.

12 Here is a star shape.



The star shape is made from a regular hexagon and six congruent equilateral triangles.

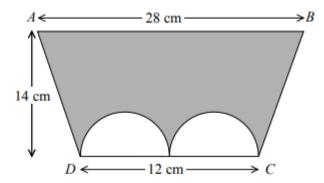
The area of the star shape is 96 cm².

Work out the area of the regular hexagon.

..... cm²

(Total for Question 12 is 2 marks)

18 The diagram shows a trapezium ABCD and two identical semicircles.



The centre of each semicircle is on DC.

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

..... cm²

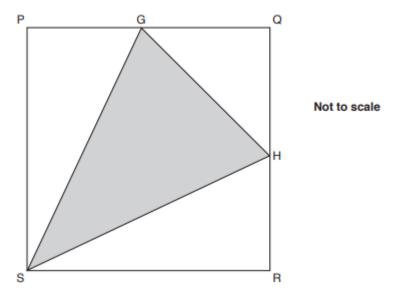
(Total for Question 18 is 4 marks)

OCR Wednesday 8 November 2017 – Morning (Calculator) Foundation Tier

9.

17 PQRS is a square.

G is the midpoint of PQ and H is the midpoint of QR. Triangle GHS is shaded.



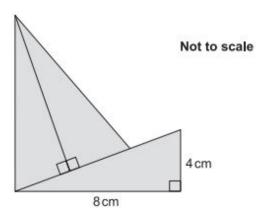
Find the ratio shaded area : area of square in its simplest form. Show all your working.

.....[4]

OCR Sample Question Paper 1 – Morning/Afternoon (Calculator) Foundation Tier

10.

5 This shape is made from three congruent right-angled triangles.



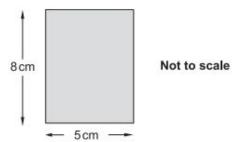
Find the total area of the shape.

		cm ²	[3]
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OCR Sample Question Paper 3 - Morning/Afternoon (Calculator) Foundation Tier

11.

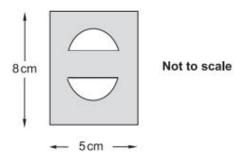
6 Jo makes a pendant from a rectangular piece of silver.



(a) Work out the area of this rectangle.



(b) To complete the pendant, Jo cuts two semicircles of radius 1 cm from the rectangle, as shown below.



Show that the shaded area is 36.9 cm² correct to three significant figures.

[4]

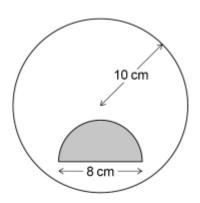
Find the volume of silver in the pendant. Give your answer in cm ³ .	
	(c) cm ³ [3]

(c) The silver Jo uses is 2 mm thick.

AQA Tuesday 21 May 2019 – Morning (Non-Calculator) Foundation Tier

12.

25 A shaded semicircle is inside a circle as shown.



Not drawn accurately

The radius of the circle is 10 cm

The diameter of the semicircle is 8 cm

Answer __

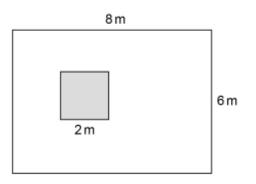
How many times bigger is the unshaded area than the shaded area?

l'	4 marks

AQA Thursday 24 May 2018 - Morning (Non-Calculator) Foundation Tier

13.

A rectangular carpet measures 8 m by 6 m
Part of the carpet is covered by a square rug of length 2 m



Not drawn accurately

Show that $\frac{1}{12}$ of the carpet is covered by the rug.

[2 marks]

AQA Sample Paper 1– Morning (Non-Calculator) Foundation Tier

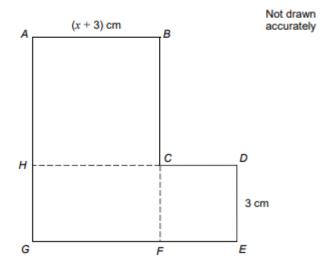
14.

30 ABCH is a square.

HCFG is a rectangle.

CDEF is a square.

They are joined to make an L-shape.



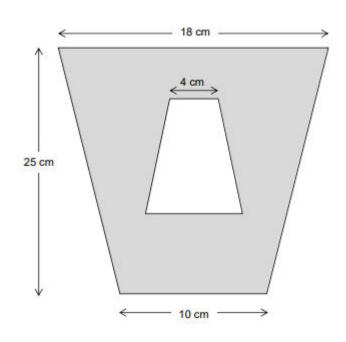
Show that the total area of the L-shape, in GH , is $x + 9x + 27$	[4 marks]

AQA Sample Paper 2– Morning (Calculator) Foundation Tier

15.

30 A pattern is made from two similar trapeziums.

Not drawn accurately



Show that the shaded area is 294 cm²

[4	122	-		-	١
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