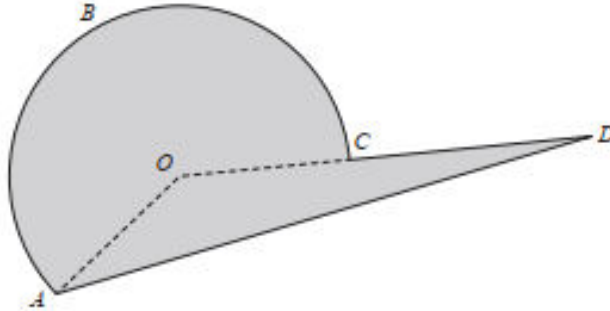


PERIMETER

Pearson Edexcel - Monday 12 November 2018 - Paper 3 (Calculator) Higher Tier

1.

16 Here is a shaded shape $ABCD$.



The shape is made from a triangle and a sector of a circle, centre O and radius 6 cm.
 OCD is a straight line.

$AD = 14$ cm
Angle $AOD = 140^\circ$
Angle $OAD = 24^\circ$

Calculate the perimeter of the shape.
Give your answer correct to 3 significant figures.

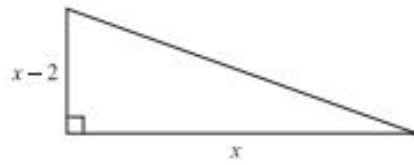
.....cm

(Total for Question 16 is 5 marks)

Pearson Edexcel - Specimen Papers Set 1 - Paper 2 (Calculator) Higher Tier

2.

19 Here is a right-angled triangle.



All measurements are in centimetres.
The area of the triangle is 2.5 cm^2 .

Find the perimeter of the triangle.
Give your answer correct to 3 significant figures.
You must show all of your working.

..... cm

(Total for Question 19 is 6 marks)

3 The diagram shows a rectangle.

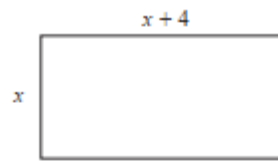


Diagram **NOT**
accurately drawn

All measurements are given in centimetres.

The perimeter of the rectangle is 45 cm.

Work out the value of x .

$x =$

(Total for Question 3 is 3 marks)

Pearson Edexcel - Thursday 9 June 2016 - Paper 2 (Calculator) Higher Tier

4.

22

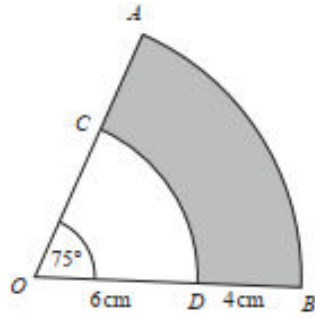


Diagram **NOT**
accurately drawn

OAB is a sector of a circle, centre O .
 OCD is a sector of a circle, centre O .
 OCA and ODB are straight lines.

Angle $AOB = 75^\circ$
 $OD = 6\text{ cm}$
 $DB = 4\text{ cm}$

Calculate the perimeter of the shaded region.
Give your answer correct to 3 significant figures.

..... cm

(Total for Question 22 is 3 marks)

Pearson Edexcel - Thursday 4 June 2015 - Paper 1 (Non-Calculator) Higher Tier

5.

13 Here is a rectangle.



Diagram **NOT**
accurately drawn

The 8-sided shape below is made from 4 of these rectangles and 4 congruent right-angled triangles.

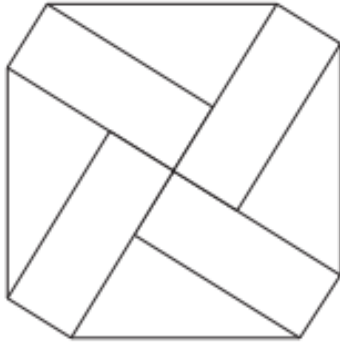


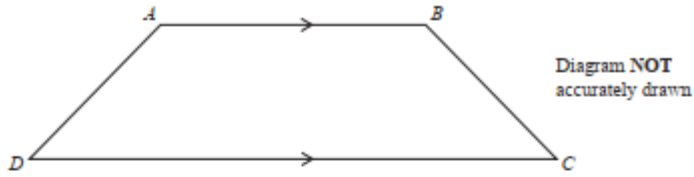
Diagram **NOT**
accurately drawn

Work out the perimeter of the 8-sided shape.
You must show all your working.

..... cm

(Total for Question 13 is 5 marks)

9 The diagram shows a trapezium.



- $AD = x$ cm.
- BC is the same length as AD .
- AB is twice the length of AD .
- DC is 4 cm longer than AB .

The perimeter of the trapezium is 38 cm.

Work out the length of AD .

..... cm

(Total for Question 9 is 4 marks)

8 ABC is a triangle.

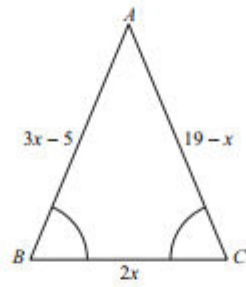


Diagram NOT
accurately drawn

Angle $ABC =$ angle BCA .

The length of side AB is $(3x - 5)$ cm.

The length of side AC is $(19 - x)$ cm.

The length of side BC is $2x$ cm.

Work out the perimeter of the triangle.

Give your answer as a number of centimetres.

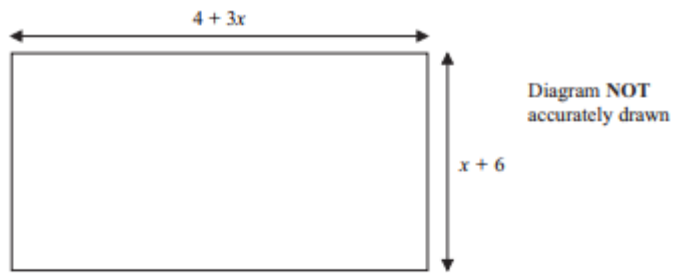
..... cm

(Total for Question 8 is 5 marks)

Pearson Edexcel - Tuesday 11 June 2013 - Paper 1 (Non-Calculator) Higher Tier

8.

10 The diagram shows a garden in the shape of a rectangle.



All measurements are in metres.
The perimeter of the garden is 32 metres.

Work out the value of x

(Total for Question 10 is 4 marks)

20. Here is a triangle ABC .

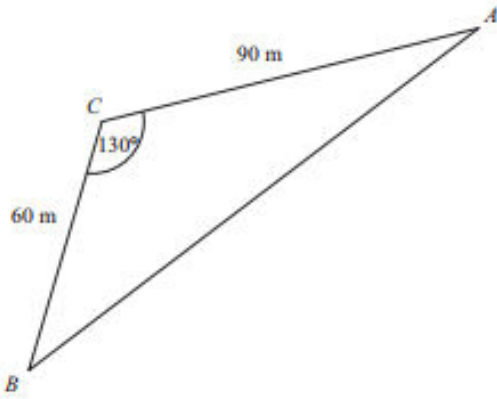


Diagram **NOT**
accurately drawn

$AC = 90$ m.
 $BC = 60$ m.
Angle $ACB = 130^\circ$.

Calculate the perimeter of the triangle.
Give your answer correct to one decimal place.

..... m

(Total 4 marks)

12.

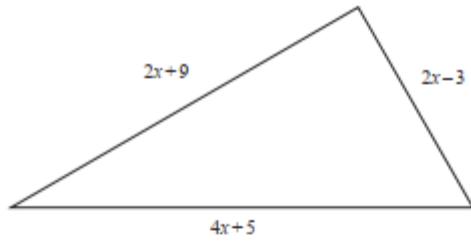


Diagram NOT
accurately drawn

In the diagram, all measurements are in centimetres.

The lengths of the sides of the triangle are

- $2x+9$
- $2x-3$
- $4x+5$

- (a) Find an expression, in terms of x , for the perimeter of the triangle.
Give your expression in its simplest form.

.....
(2)

The perimeter of the triangle is 39 cm.

- (b) Find the value of x .

$x =$
(2)

(Total 4 marks)

OCR GSCE – Monday 11 November 2019 – Paper 6 (Calculator) Higher Tier

11.

- 4 The diagram shows two rectangles, A and B.



Rectangle A has a width of 25 cm and a height of 12 cm.

The width of rectangle B is three times the height of rectangle B.

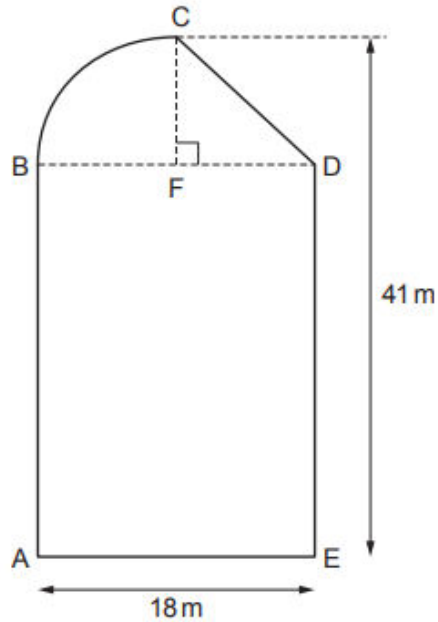
The area of rectangle A is equal to the area of rectangle B.

Find the perimeter of rectangle B.

..... cm [5]

12.

- 7 The diagram shows a shape ABCDE.
The shape is made from a rectangle, a right-angled triangle and a quarter of a circle.



Not to scale

F is the mid-point of BD.

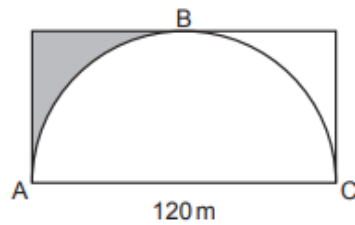
AE = 18 m and the perpendicular distance from C to AE is 41 m.

Work out the **perimeter** of the shape ABCDE.

13.

- 6 The diagram shows a semi-circle inside a rectangle of length 120m. The semi-circle touches the rectangle at A, B and C.

Not to scale



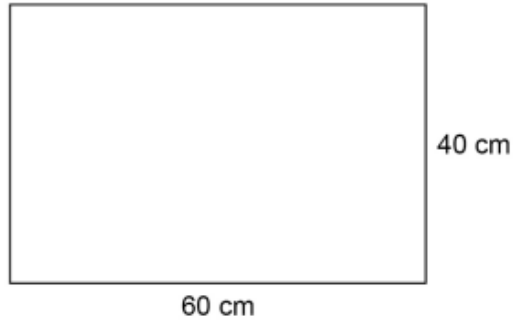
Calculate the **perimeter** of the shaded region.
Give your answer correct to 3 significant figures.

..... m [5]

AQA GCSE – Thursday 8 June 2020 – Paper 3 (Calculator) Higher Tier

14.

14 A rectangle has length 60 cm and width 40 cm



Not drawn accurately

The length decreases by 15%

The width decreases by 10%

Sue says,

“The perimeter decreases by 25% because $15\% + 10\%$ is 25%”

Is she correct?

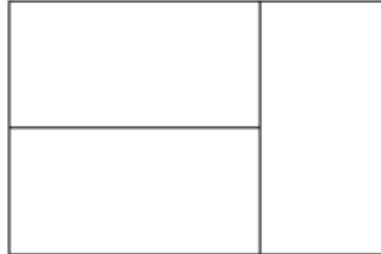
You **must** show calculations to support your answer.

[4 marks]

AQA GCSE – Monday 24 May 2018 – Paper 1 (Non - Calculator) Higher Tier

15.

11 A large rectangle is made by joining three identical small rectangles as shown.



Not drawn accurately

The perimeter of one small rectangle is 15 cm

Work out the perimeter of the large rectangle.

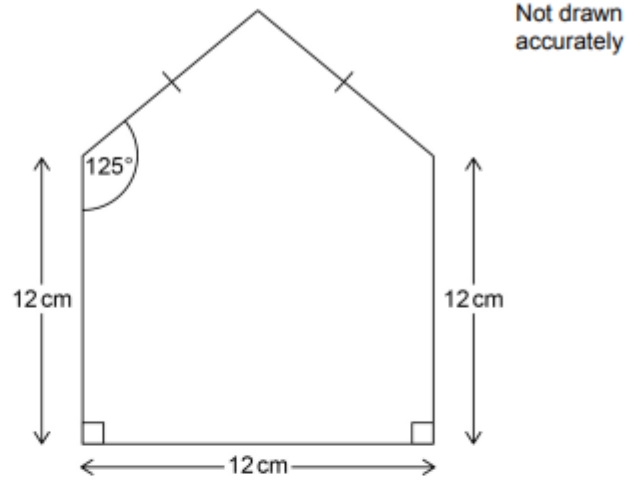
[4 marks]

Answer _____ cm

AQA GCSE – Thursday 7 June 2018 – Paper 2 (Calculator) Higher Tier

16.

19 A pentagon is made from a square and an isosceles triangle.



Work out the perimeter of the pentagon.

[4 marks]

Answer _____ cm