

8300

GCSE MATHEMATICS

Foundation and Higher tier – Questions by Topic

Geometry

Finding the perimeter of compound shapes

v1.0

Name _____

Materials

For this paper you must have:

- Mathematical instruments

Information

- The marks for questions are shown in brackets

Advice

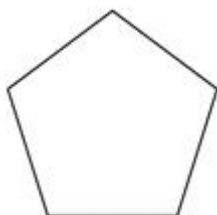
- In all calculations, show clearly how you work out your answer

For questions 1 to 3, you must **NOT** use a calculator.



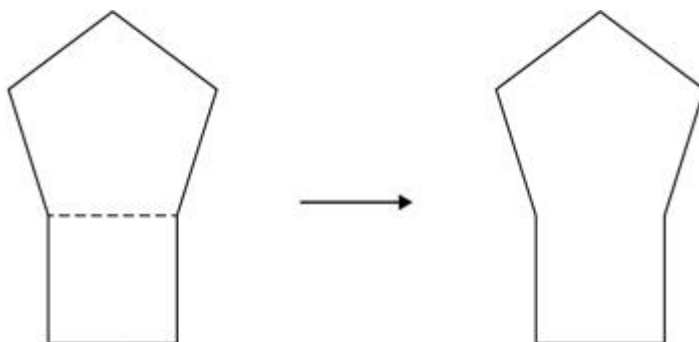
Q1.

A **regular** pentagon has perimeter 100 mm



Not drawn
accurately

A shape is made by joining a square to the pentagon.

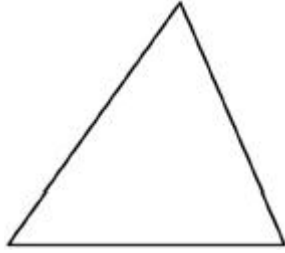


Work out the perimeter of the shape.

(Total 3 marks)

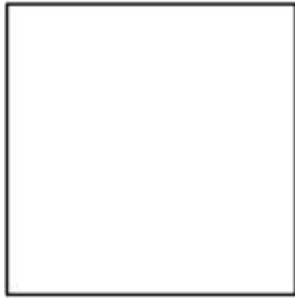
Q2.

A triangle has perimeter 32 cm

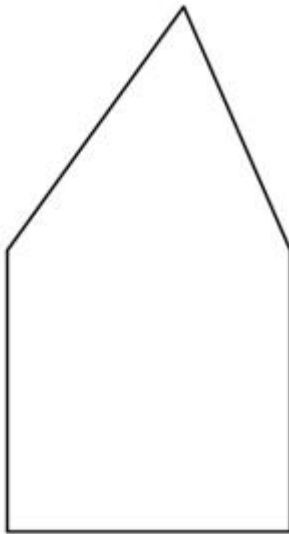


Not drawn
accurately

A square has perimeter 40 cm



Two sides of the shapes are put together to make a pentagon.



Not drawn
accurately

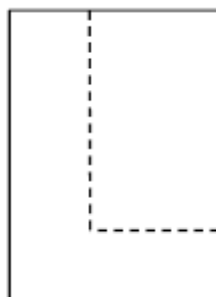
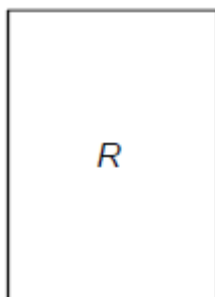
Work out the perimeter of the pentagon.

(Total 4 marks)

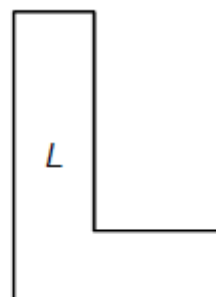
Q3.

Shape R is a rectangle.

A smaller rectangle is cut from R to form shape L .



Not drawn accurately



Which **one** of these statements is true?

Tick a box.

The perimeter of R is **longer than** the perimeter of L

The perimeter of R is the **same as** the perimeter of L

The perimeter of R is **shorter than** the perimeter of L

It is **not** possible to tell which perimeter is longer

(Total 1 mark)

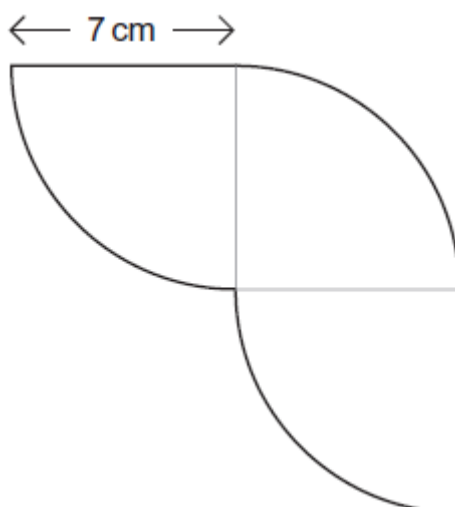
For the rest of the questions, you may use a calculator.



Q4.

This shape is made from identical quarter circles.

Not drawn accurately

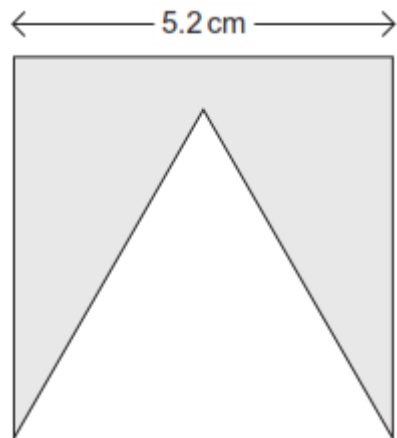


Work out the perimeter of the shape.

(Total 4 marks)

Q5.

This shape is made by cutting out an equilateral triangle from a square.



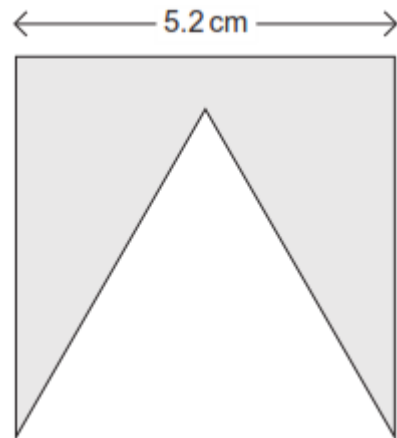
Not drawn
accurately

Work out the perimeter of the shape.

(Total 2 marks)

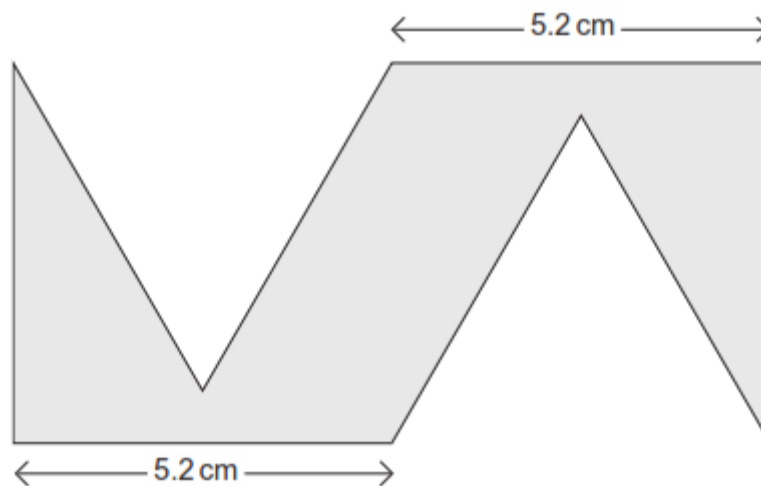
Q6.

This shape is made by cutting out an equilateral triangle from a square.



Not drawn
accurately

Two of these shapes are then put together to make a new shape as shown below.



Work out the perimeter of this new shape.

(Total 3 marks)