



**Bishops  
Online  
Tutoring**



Education Consultancy

# Edexcel GCSE Mathematics

## CONGRUENT SHAPES

### Materials Required:

- Pen
- HB Pencil
- Ruler (in centimetres and millimetres)
- Protractor
- Compass

### Instructions:

- Use a black ink pen to answer all questions
- Fill your name in the section below
- Answer the questions in the spaces provided
- Show your working out for all answers

### Information:

- The marks allocated for each question are displayed within brackets – utilise this information to gauge the appropriate amount of time to dedicate to each question
- Questions marked with an asterisk (\*) will assess your written communication; be careful of spelling, punctuation and grammar with these questions

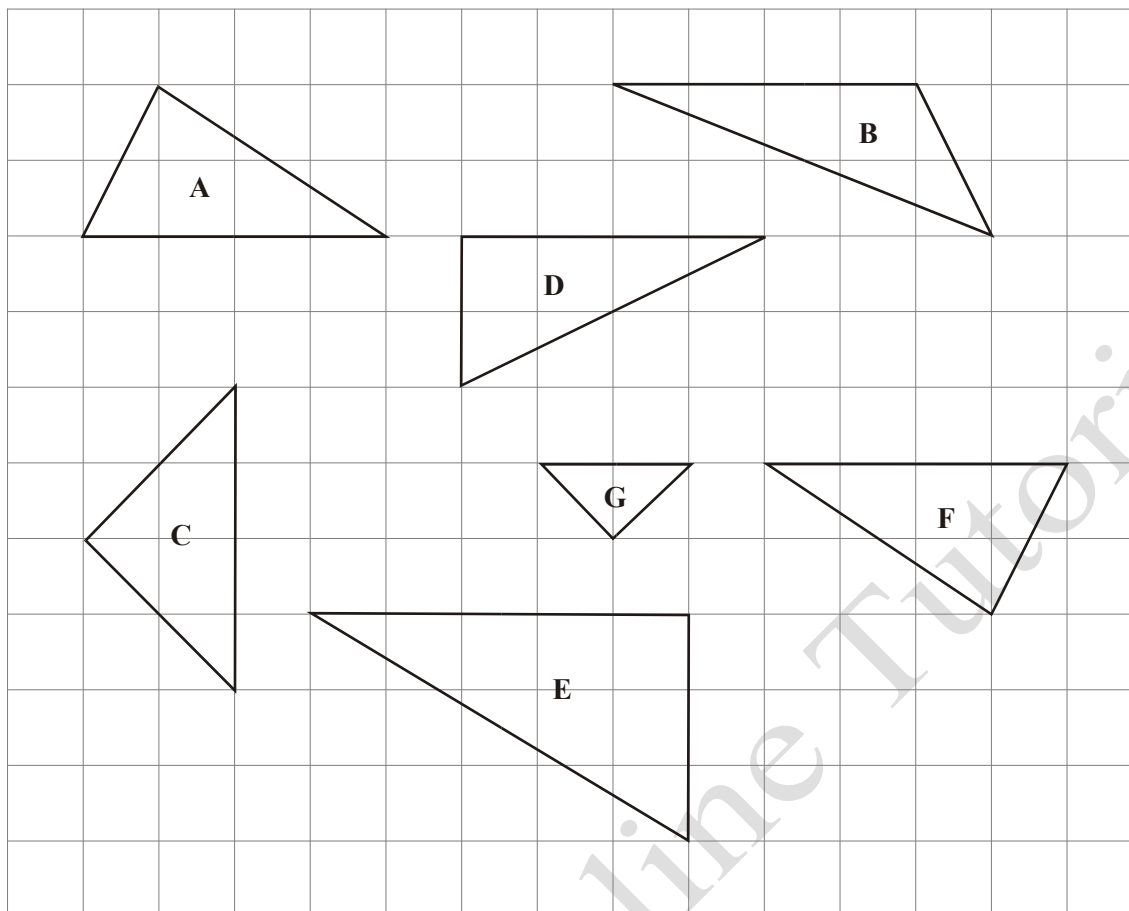
### Advice:

- Carefully read the question before attempting to answer it
- Be vary of time and try to answer every question
- If you have enough time in the end, go back and check your answers. A good way to check your answers is to retry the question with the hope of getting the same answer as before without looking at your working out from before

# NO CALCULATOR ALLOWED

<b>NAME:</b>	
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1.



(a) Write down the letter of an **isosceles** triangle.

.....

(1)

(b) Write down the letters of **two** triangles which are congruent.

..... and .....

(1)

Triangle **C** is an enlargement of triangle **G**.

(c) Write down the scale factor of this enlargement.

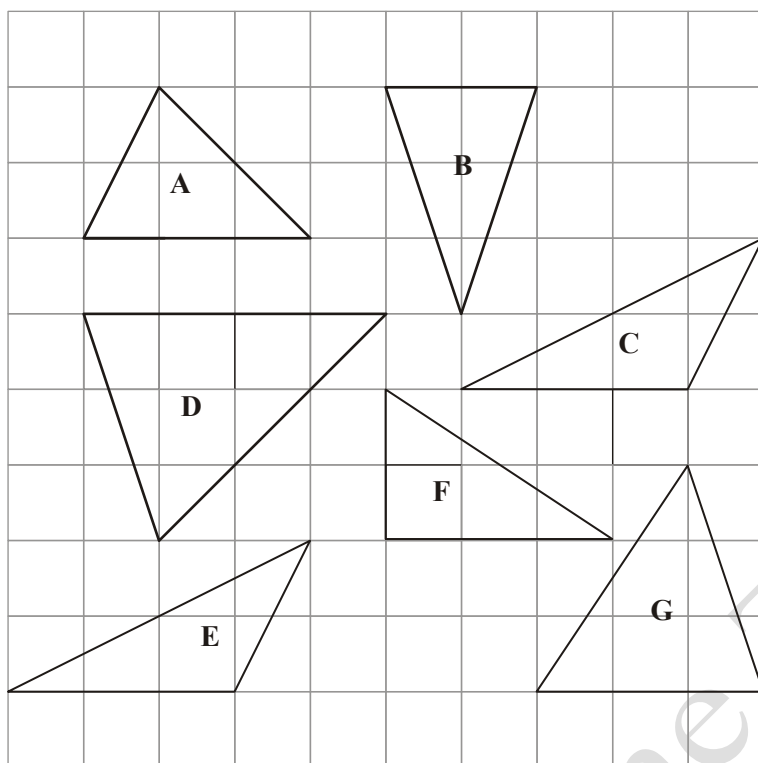
.....

(1)

(Total 3 marks)

2.

Here are some triangles.



(a) Write down the letter of the triangle that is

(i) right-angled,

.....

(ii) isosceles.

.....

(2)

**Two** of the triangles are congruent.

(b) Write down the letters of these two triangles.

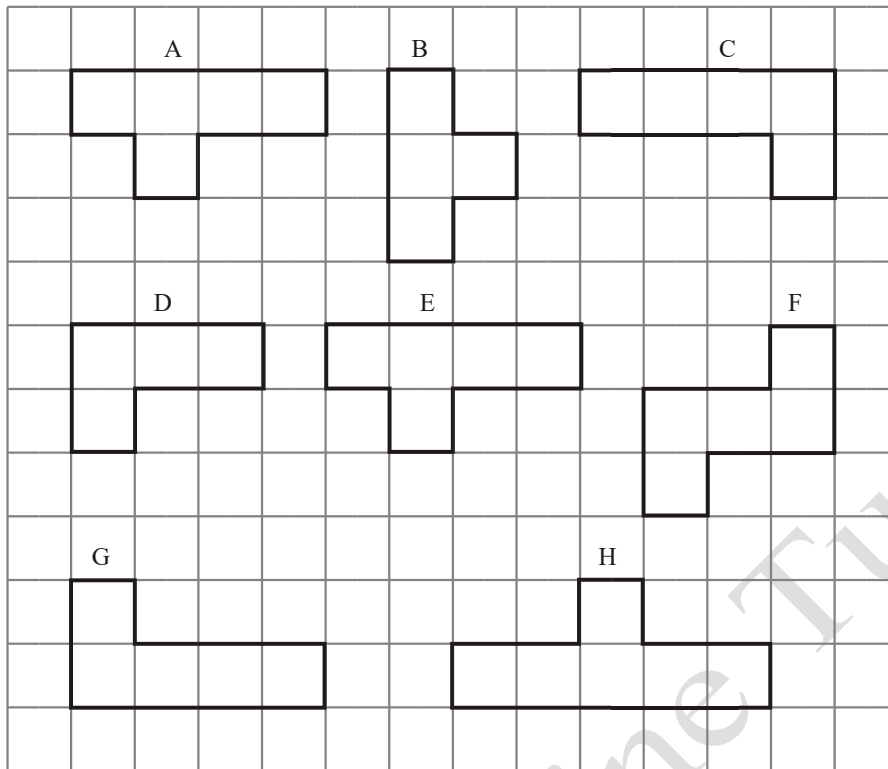
..... and .....

(1)

**(Total 3 marks)**

3.

Here are 8 shapes.



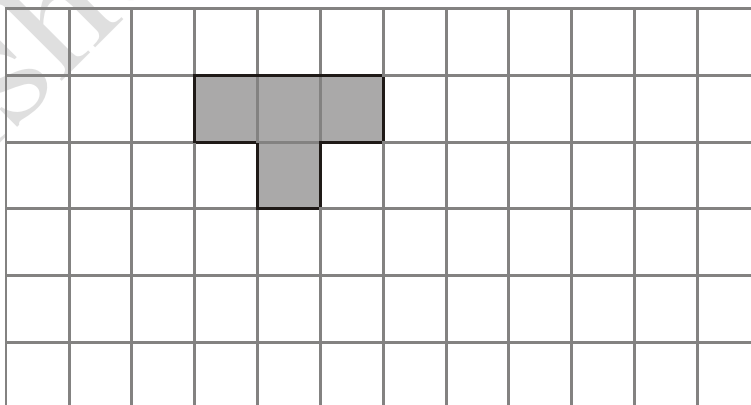
- (a) Write down the letters of two **different** pairs of congruent shapes.

..... and .....

..... and .....

(2)

- (b) On the grid, show how the shaded shape will tessellate. You must draw **at least 6** shapes.

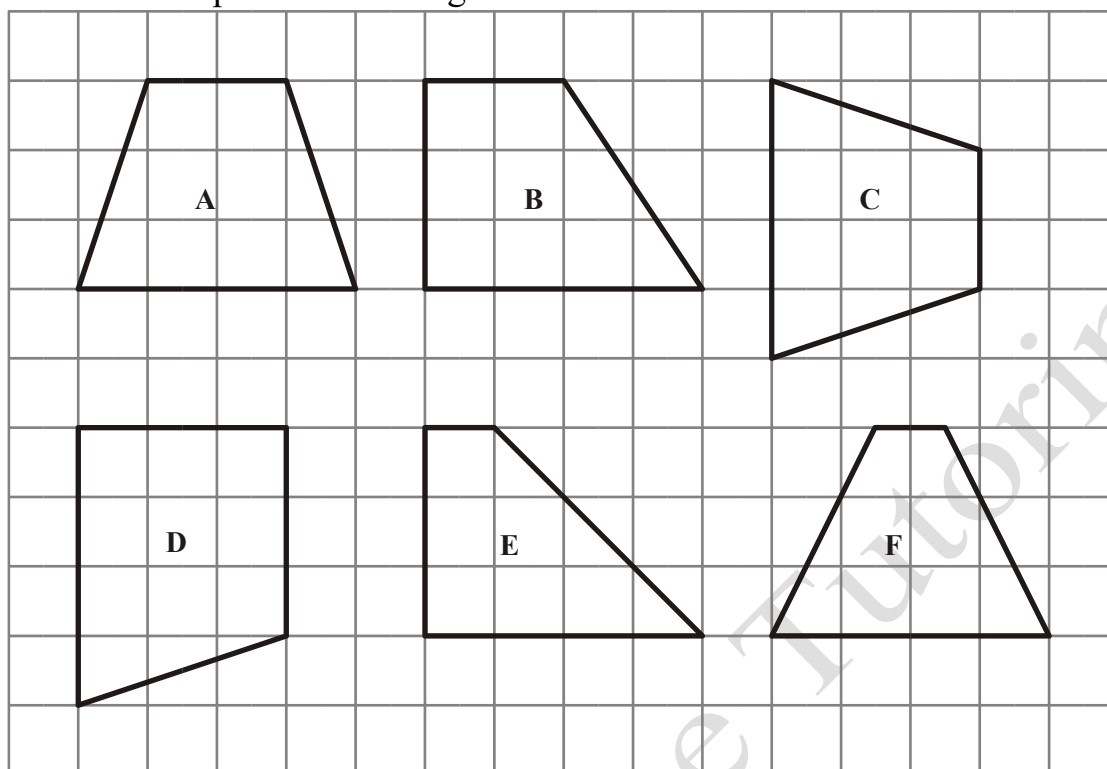


(2)

(Total 4 marks)

4.

Here are 6 shapes drawn on a grid.



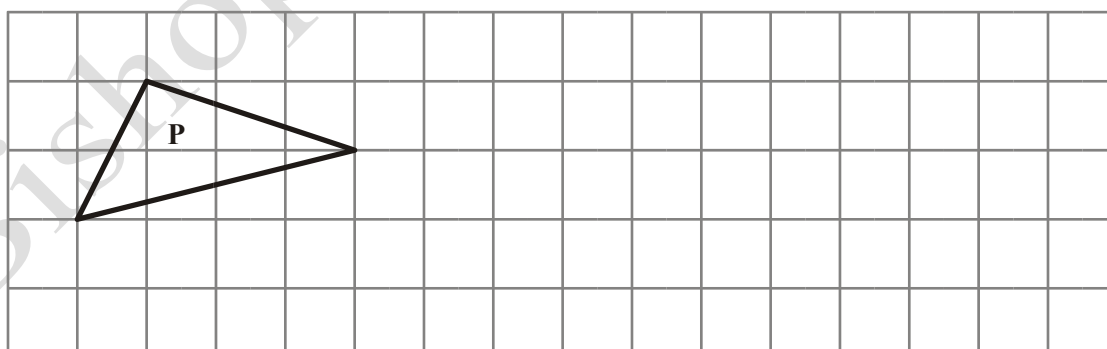
**Two** of these shapes are congruent.

(a) Write down the letters of these two shapes.

..... and .....

(1)

(b) On the grid below, draw a shape that is congruent to shape P.

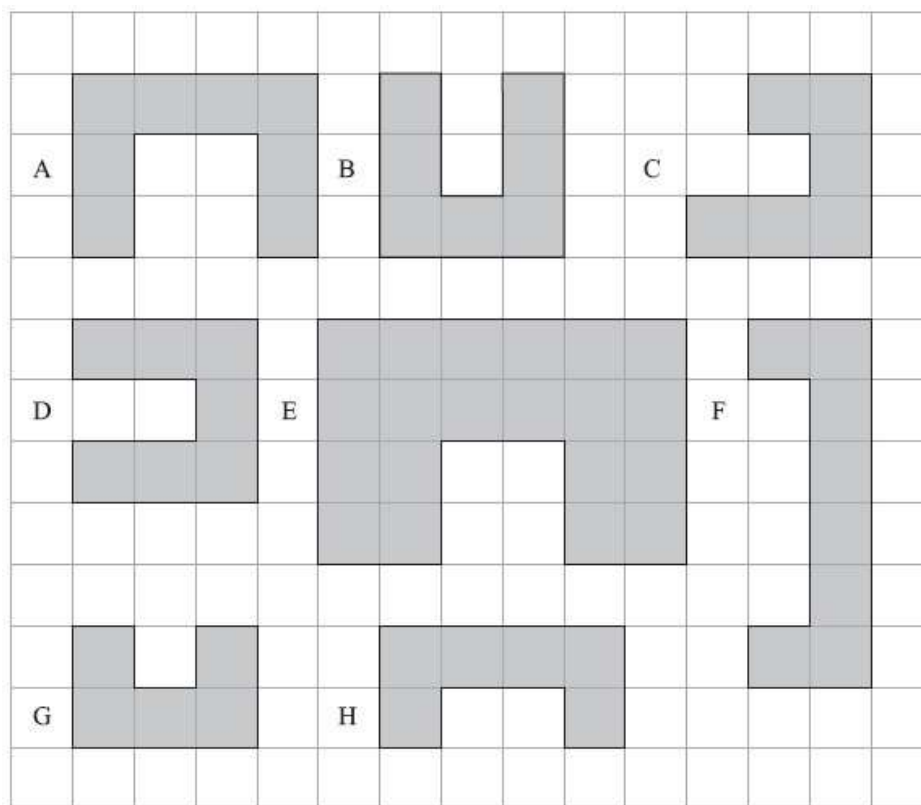


(1)

(Total 2 marks)

5.

These shapes have been drawn on a grid of centimetre squares.



(a) (i) Write down the letters of a pair of shapes that are congruent.

..... and .....

(ii) Write down the letters of a different pair of shapes that are similar.

..... and .....

(2)

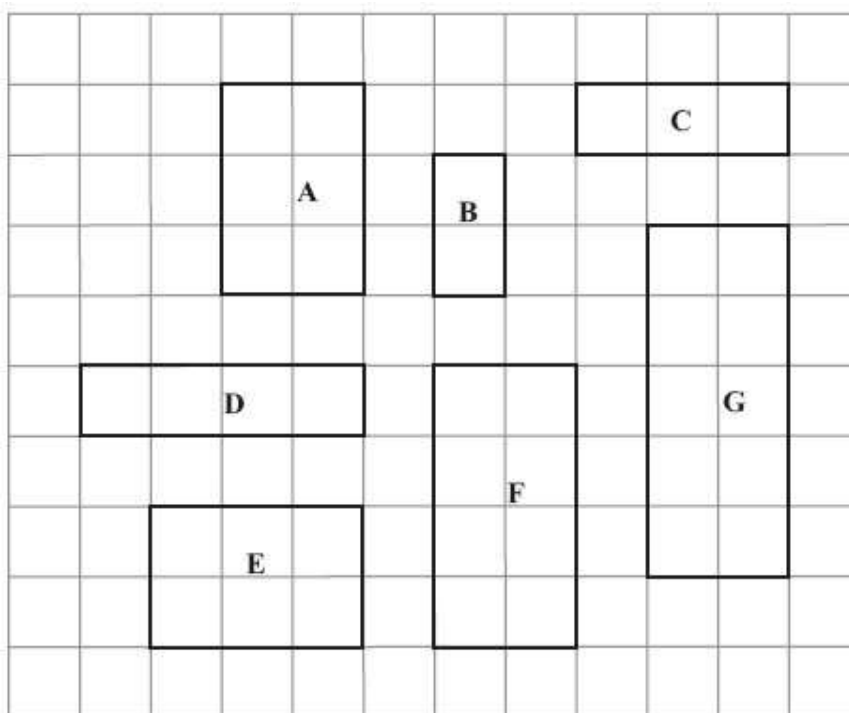
(b) Find the perimeter of shape D.

..... cm

(1)

(Total 3 marks)

6. Here are some rectangles on a grid of centimetre squares.



(a) Find the area of rectangle **G**.

.....cm<sup>2</sup>  
(1)

(b) Find the perimeter of rectangle **B**.

.....cm  
(1)

**Two** of the rectangles are congruent.

(c) Write down the letters of these two rectangles.

..... and .....  
(1)

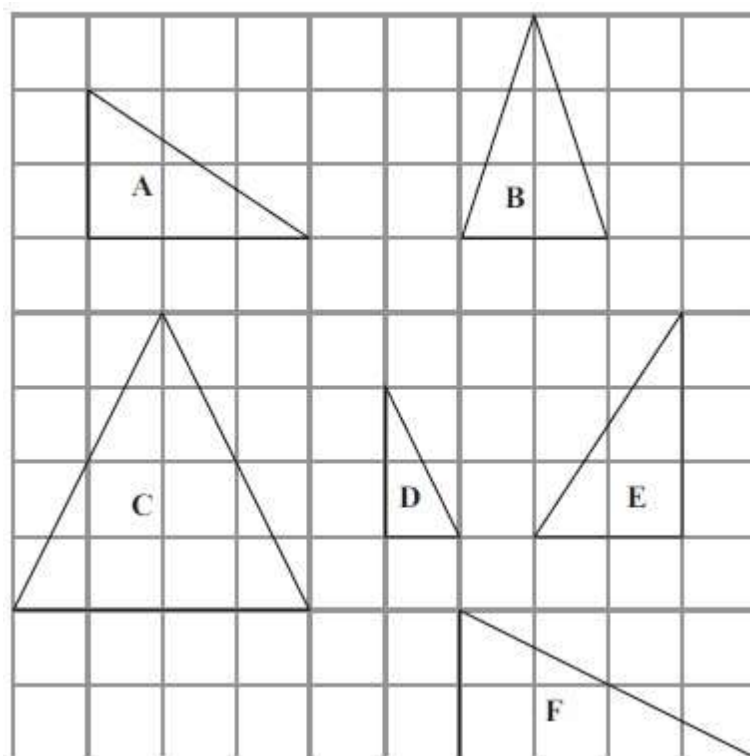
Rectangle **F** is an enlargement of rectangle **B**.

(d) Write down the scale factor of the enlargement.

.....  
(1)

**(Total 4 marks)**

7. Here are some triangles drawn on a square grid.



**Two** of the triangles are congruent.

(a) Write down the letters of these two triangles.

..... and .....  
(1)

**One** of the triangles is an enlargement of another of the triangles.

(b) Write down the letters of these two triangles.

..... and .....  
(1)

**Two** of the triangles each have one line of symmetry.

(c) Write down the letters of these two triangles.

..... and .....  
(1)

**(Total 3 marks)**