Planner

# Congruence

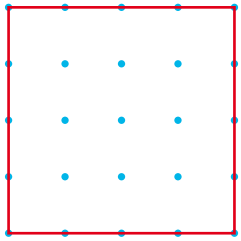
- Identifying congruent shapes, including triangles and quadrilaterals

Keywords

You should know

explanation 1 online

**1** Draw a square like this on squared paper.



**a** Split the square into two congruent shapes. Each line you draw must start and end on a dot and be parallel to a side of the square.

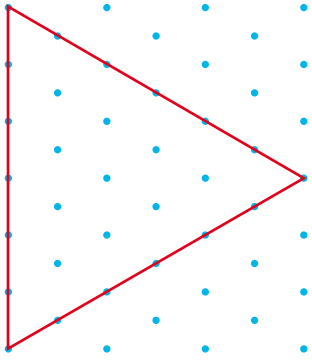
**b** What is the smallest perimeter each of the congruent shapes can have? What is the largest perimeter? Draw diagrams to support your answer.

**2** On squared paper, draw a square like the one in question **1**.

**a** Split the square into four congruent shapes. Each line you draw must start and end on a dot and be parallel to a side of the square.

**b** What is the smallest perimeter each of the congruent shapes can have? What is the largest perimeter? Draw diagrams to support your answer.

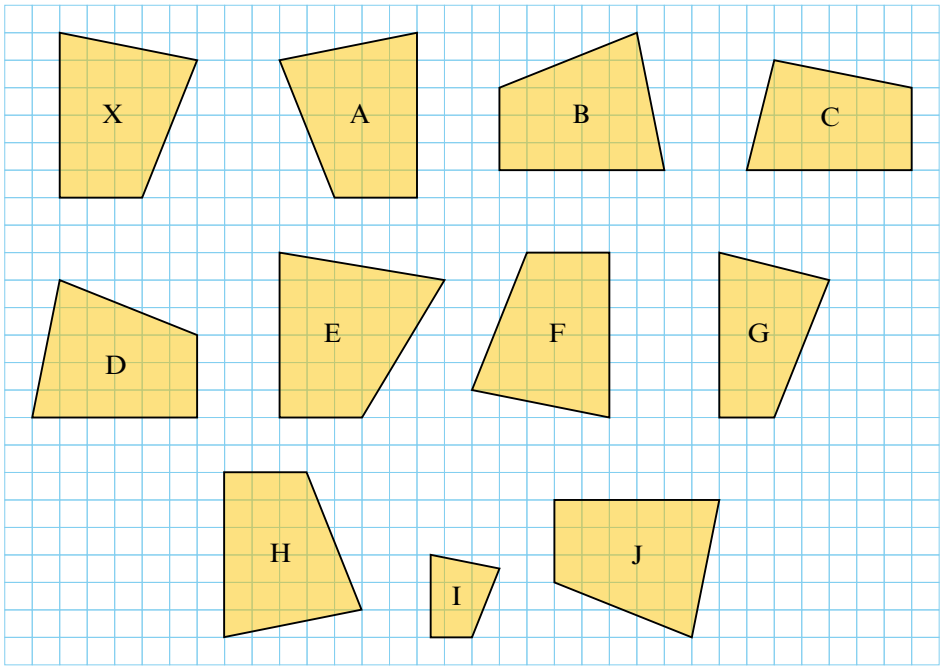
**3** Draw an equilateral triangle on isometric paper.



**a** Split the triangle into three congruent shapes. Each line you draw must start and end on a dot and be parallel to a side of the triangle.

**b** What is the smallest perimeter each of the congruent shapes can have? What is the largest perimeter? Draw diagrams to support your answer.

**4** Which of these shapes are congruent to shape X?




explanation 2

**5** Which of the following triangles are definitely congruent to each other? Explain your answers.