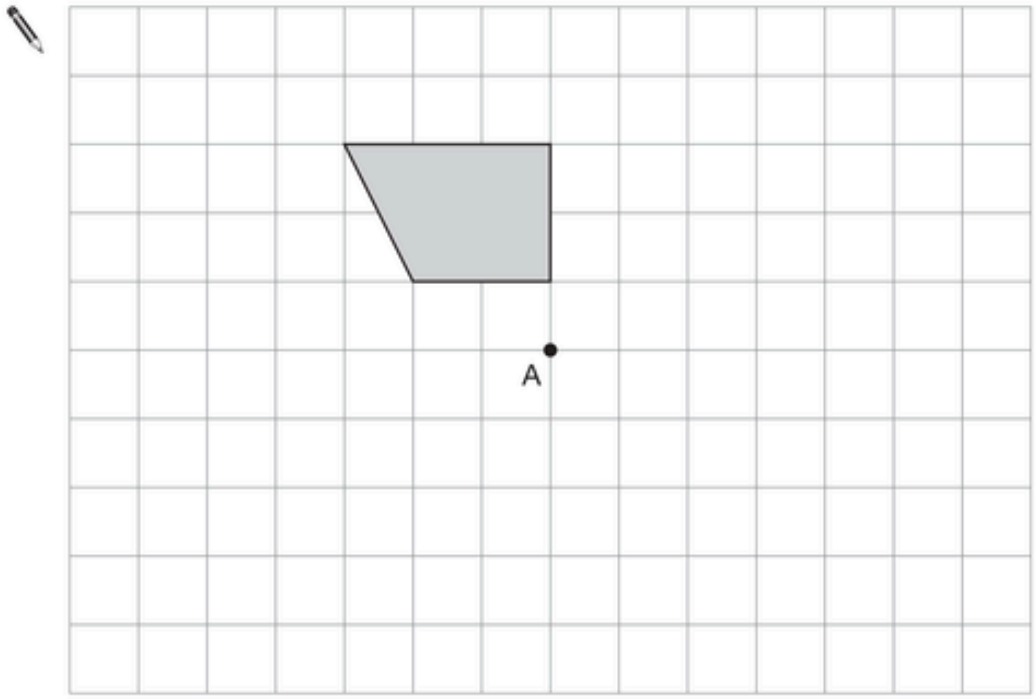
Transformations

Reflections, rotations, translations and enlargements — getting comfortable moving shapes around the grid is important for KS3 and GCSE maths!

23. Here is a shaded shape drawn on a square grid.

Rotate the shape **180°** about point A.

Draw the shape in its new position on the grid.

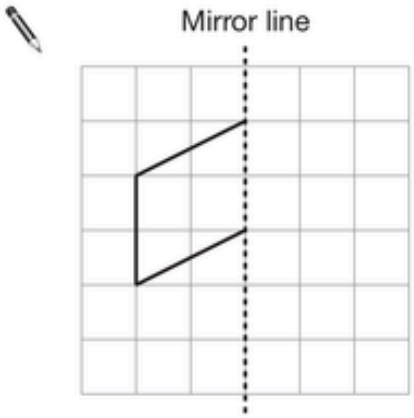


2 marks

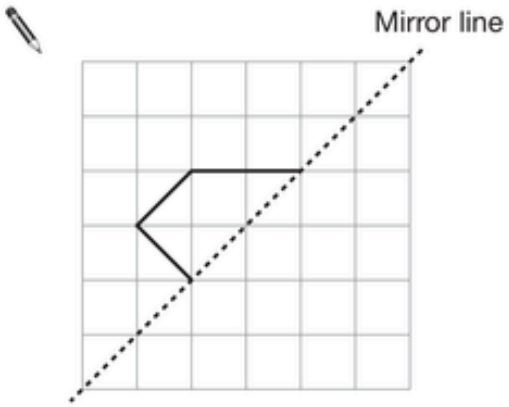
KS3 Maths SATs, Tier 3-5, Paper 2 (2009) - Q23

The diagrams in this question are drawn on square grids.

Reflect the shapes in the mirror lines.



1 mark



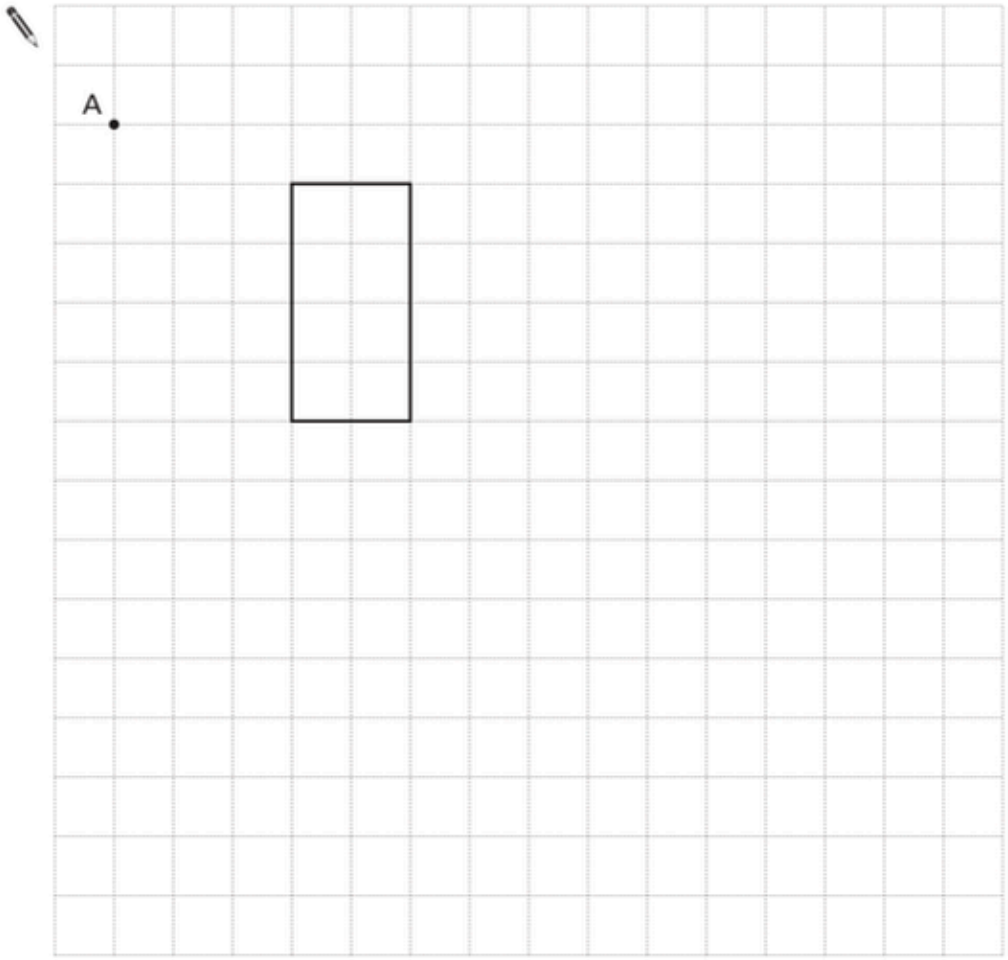
1 mark

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18. Look at the rectangle drawn on a square grid.

Draw an **enlargement** of this rectangle with **scale factor 2**

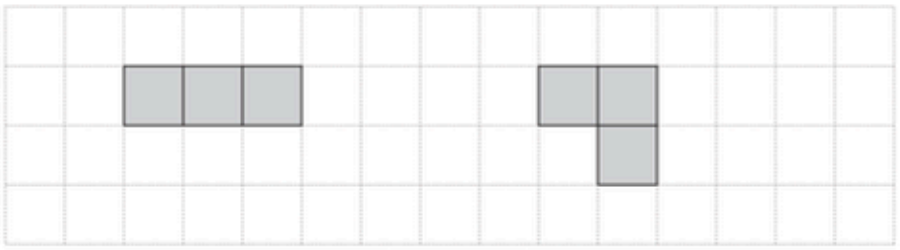
Use **point A** as the **centre** of enlargement.



2 marks

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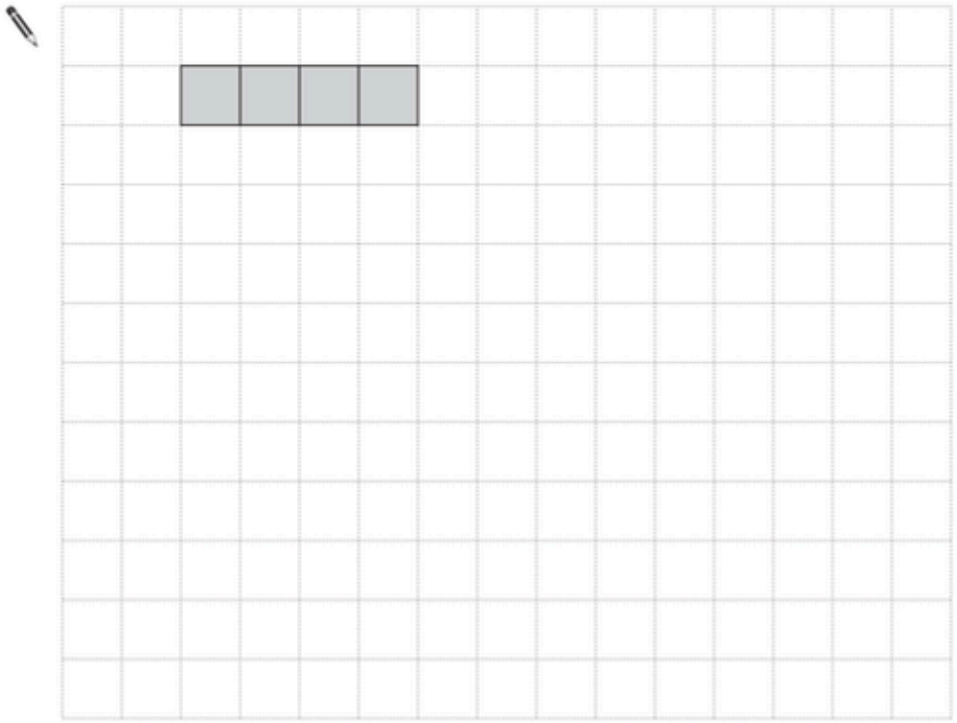
6. Without reflections or rotations,
three squares can join side-to-side to make only **two different** shapes.



Square grid

Without reflections or rotations,
four squares can join side-to-side to make only **five different** shapes.

Complete the five different shapes on the grid below.
The first one is done for you.



. . . .
. . . .
. . . .
3 marks

Square grid

Modern Tuition