

Original examination style practice

Pearson Edexcel GCSE Mathematics 1MA1 • L030

10 marks • 12 minutes • Non-calculator • Lesson resources

REACH FOR THE STAR | GCSE MATHEMATICS

Original Reach for the Star questions; not official or endorsed Pearson materials. Shared Foundation/Higher content. This is targeted practice, not a balanced mock paper or grade prediction.

E1 Centre origin: find images of (a) (2,3) at $k=2$ (b) (6,4) at $k=1/2$. [2]

E2 Enlarge (2,2),(4,2),(2,4) by $k=2$ about (1,1). Give the image vertices. [3]

Reasoning and application

E3 Explain why multiplying coordinates directly fails for a general non-origin centre. [2]

E4 Side 8 cm becomes 6 cm. Find factor, image of 12 cm, and factor that reverses the enlargement. [3]

Check working and units. Teacher feedback follows separately.