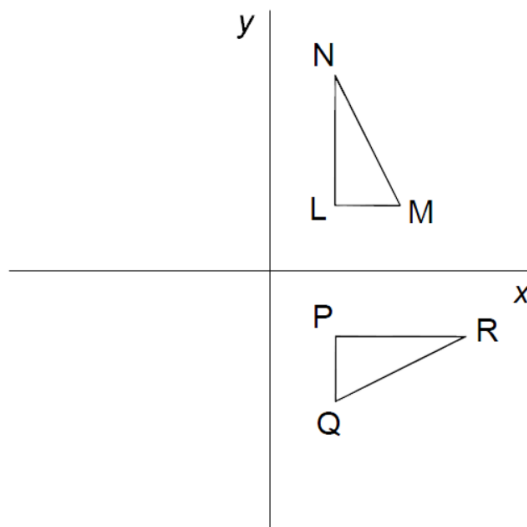




## Transformations

# 2008

- 13** In the diagram below, the triangles are congruent, **PQ** is a continuation of **NL** and both **L** and **P** are equidistant from the line **X = 0** and from the line **Y = 0**.



Of the transformations (1 to 5) described below, which one of the combinations (A to E) will map the triangle **LMN** onto the triangle **PQR**?

- |          |  |
|----------|--|
| 1        | Reflection in the line $y = 0$           |
| 2        | Rotation of $90^\circ$ about the origin  |
| 3        | Reflection in the line $y = x$           |
| 4        | Reflection in the line $x = 0$           |
| 5        | Rotation of $180^\circ$ about the origin |
|          |  |
| <b>A</b> | 1 followed by 2                          |
| <b>B</b> | 3 followed by 4                          |
| <b>C</b> | 5 followed by 4                          |
| <b>D</b> | 2 followed by 5                          |
| <b>E</b> | 4 followed by 5                          |