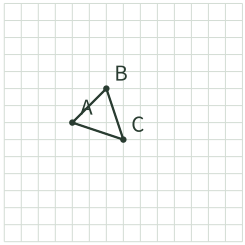
Translation: matching points and invariant lengths — Further practice

Year 7, lower volume • text pp. 25–28 • textbook lessons 13–14

Further practice 11

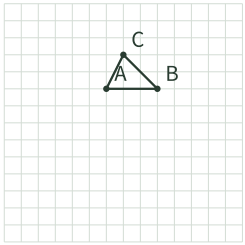
Translate every labelled point on the squared grid 4 squares right. Mark the corresponding image points and join matching edges.



Squared grid; each square is one unit. Use the stated directions and counts.

Further practice 12

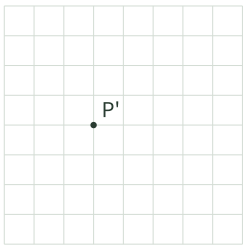
Translate every labelled point on the squared grid 4 squares down. Mark the corresponding image points and join matching edges.



Squared grid; each square is one unit. Use the stated directions and counts.

Further practice 13

P′ is marked on the squared grid after a translation left 3 and up 2. Mark the original point P.



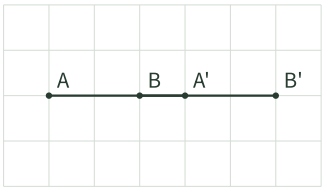
Squared grid; each square is one unit. Use the stated directions and counts.

Further practice 14

M is the midpoint of AB. Under a translation, where is its image M′ relative to A′B′?

Extension 15

A and B lie two squares apart on the same horizontal grid row. Both move right 3 squares to A′,B′. A learner says AA′ and BB′ must lie on two distinct parallel lines. Correct the claim.



Squared grid; each square is one unit. Use the stated directions and counts.

Extension 16

Translate a figure right 4 and up 1, then left 2 and down 3. Give the single equivalent translation and explain why the figure does not rotate.