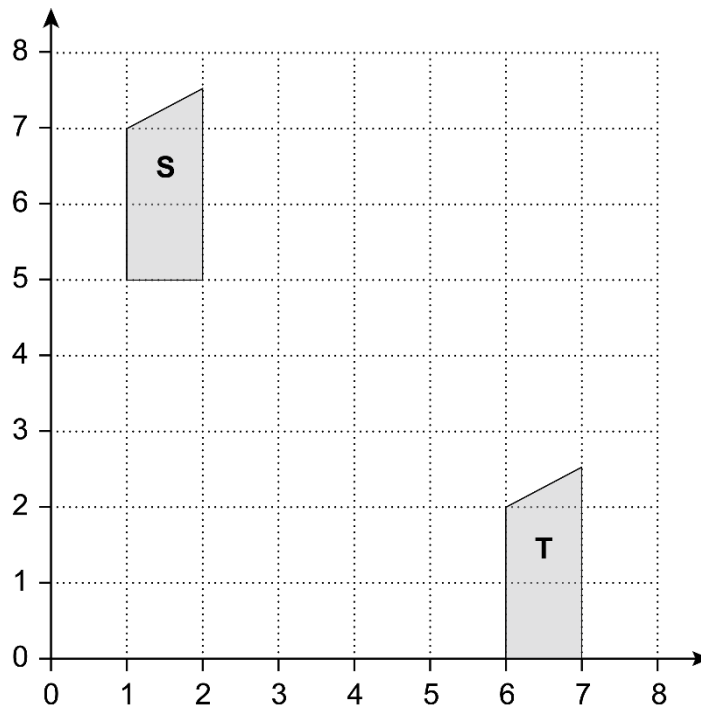


- 14 (a) Here is a coordinate grid.

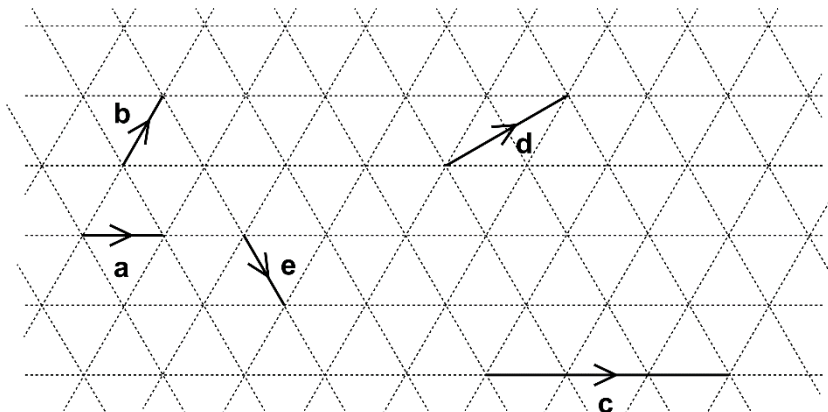


Shape S is translated to Shape T using vector $\begin{pmatrix} p \\ q \end{pmatrix}$.

Write down the values of p and q .

(a) $p = \dots\dots\dots$
 $q = \dots\dots\dots$ [2]

- (b) Vectors **a**, **b**, **c**, **d** and **e** are drawn on an isometric grid.



Write each of the vectors **c**, **d** and **e** in terms of **a** and/or **b**.

c = $\dots\dots\dots$
d = $\dots\dots\dots$
e = $\dots\dots\dots$

[3]