## Think together

I This desk is translated to a new position, shown by the dotted lines. Describe the translation.

The desk has moved $\square$ squares


2 a) Describe the translation from square $A$ to square $B$, and from $B$ to $A$.


A to B: $\square$ left and 2 $\qquad$
$B$ to A: $\square$ —— and $\square$
b) Describe the translation from $C$ to $D$ and from $D$ to $C$.

C to D : $\square$
$\qquad$ and $\square$
$\qquad$
D to C: $\square$
$\qquad$ and

c) What do you notice?

3 a) The shaded triangle, $A$, is translated and reflected. Which triangles show reflections and which triangles show translations? How can you tell?


I can spot translations by imagining the shape sliding smoothly.
b) Describe each translation.
c) Where are the mirror lines for the reflections?

I can test for reflections by using a mirror.
d) Triangle $A$ is translated $I 0$ right and 3 up. Point to its new position on the grid.

