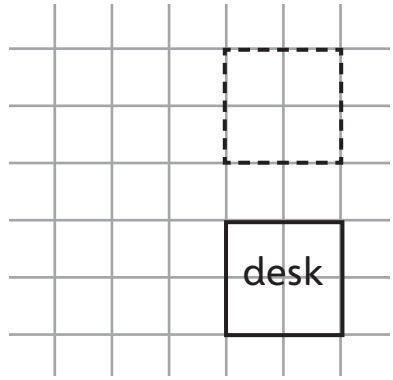
Think together

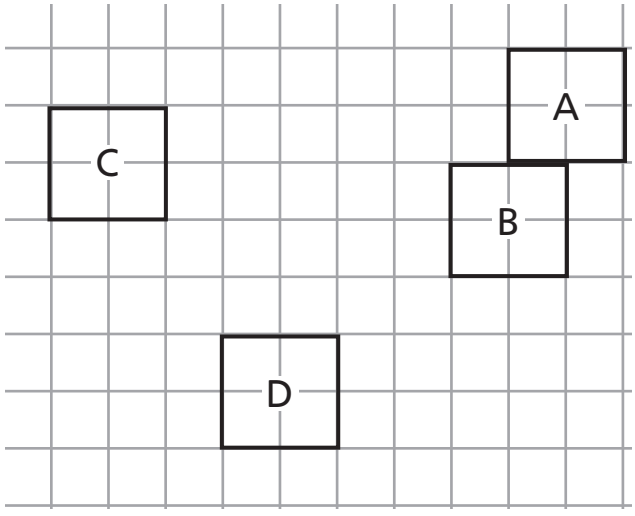
1 This desk is translated to a new position, shown by the dotted lines. Describe the translation.



The desk has moved ☐ squares

_____ .

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



Your answer must show how many squares each vertex has moved left or right first, then up or down.

A to B: ☐ left and 2 _____

B to A: ☐ _____ and ☐ _____

b) Describe the translation from C to D and from D to C.

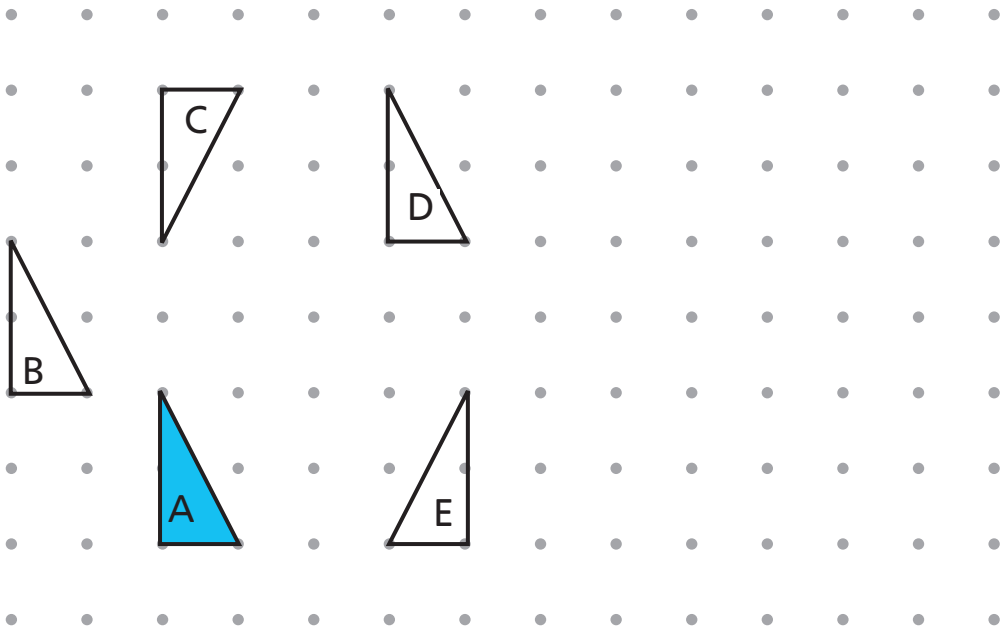
C to D: ☐ _____ and ☐ _____

D to C: ☐ _____ and ☐ _____

c) What do you notice?

CHALLENGE

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 10 right and 3 up. Point to its new position on the grid.

→ Practice book 5C p102