

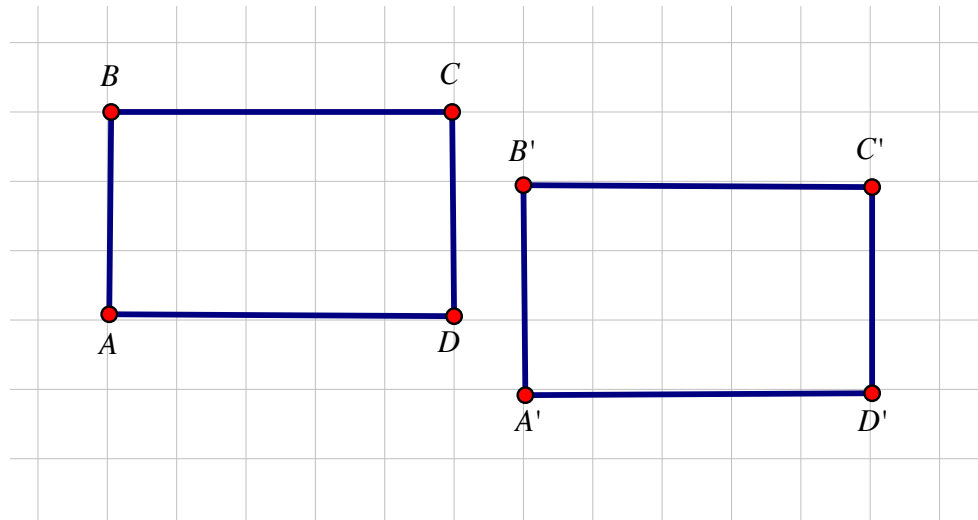
**If we were not given a drawing, we might see this notation for a translation. The “a” moves the points P horizontally “a” and the “b” moves the points P vertically “b’ units.**

$$\mathbf{T_{(a,b)}(x, y) \longrightarrow (x + a, y + b)}$$

**Find the  $T_{(3, -4)}(5, 2)$**

**Under this translation, the point (5, 2) will move over 3 and down 4 to find the image.  $(5+3, 2+ -4) = (8, -2)$**

**Example 3** Find  $T_{(6, -1)} \square ABCD$



**Notice all the points, A, B, C, and D were moved 6 spaces to the right and 1 space down.**