

The green rectangle is the image of the blue rectangle after a stretch with invariant line through A and B.

- What is the scale factor?
- Find the position of  $C'$ , and the shape and area of the green image, if the scale factor stays the same but A and B are moved to
  - $(0, 8)$  and  $(1, 8)$
  - $(0, 7)$  and  $(1, 8)$
  - $(0, 6)$  and  $(1, 8)$ .

