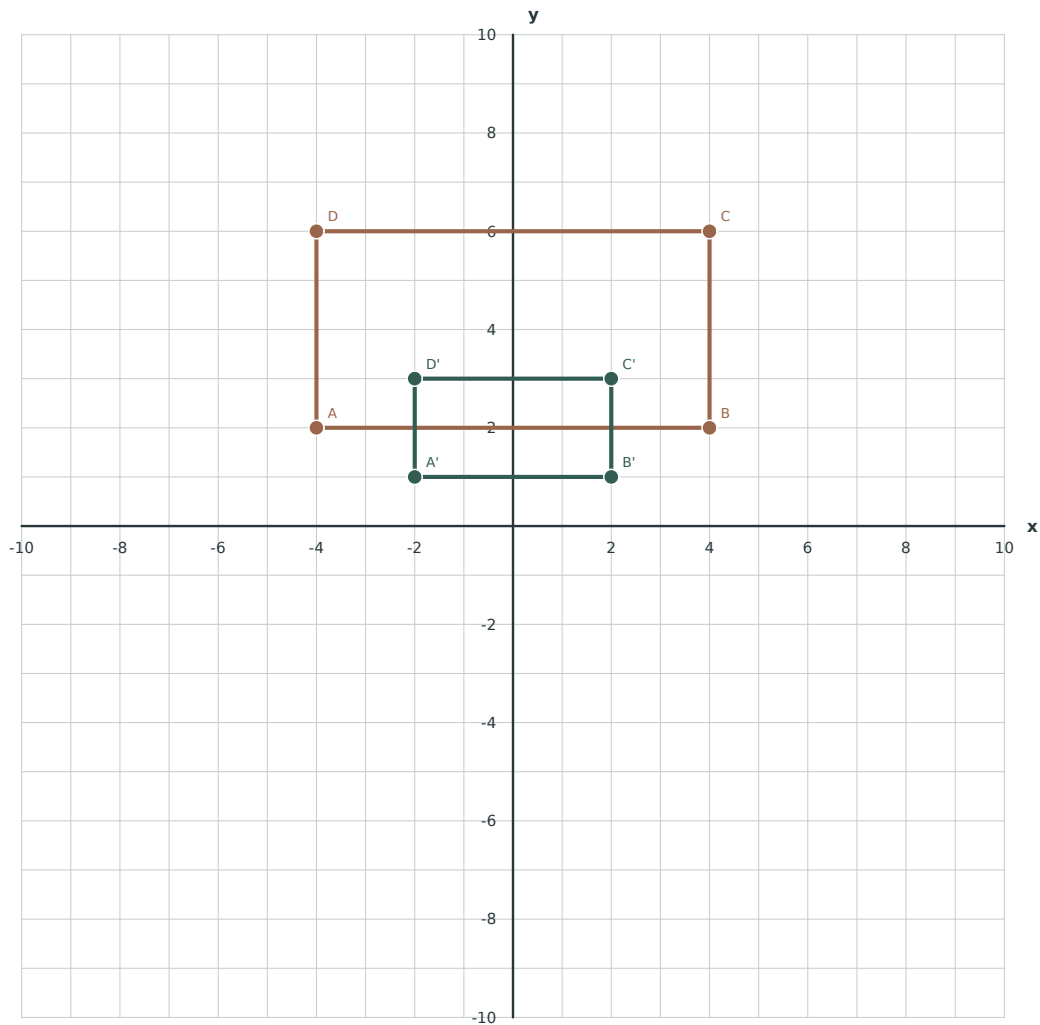


Half-size rectangle

Vertices in order: A(-4, 2); B(4, 2); C(4, 6); D(-4, 6).

Dilate about (0, 0) by scale factor $1/2$. Draw and label the image. State the length and area ratios.

ANSWER / worked construction



Brown: original / Green: transformed image (answer only)

Dilate about (0, 0) by scale factor $1/2$.

Image vertices: A(-2, 1); B(2, 1); C(2, 3); D(-2, 3).

Length ratio = $1/2$; area ratio = $1/4$. Area: 32 to 8 square units.