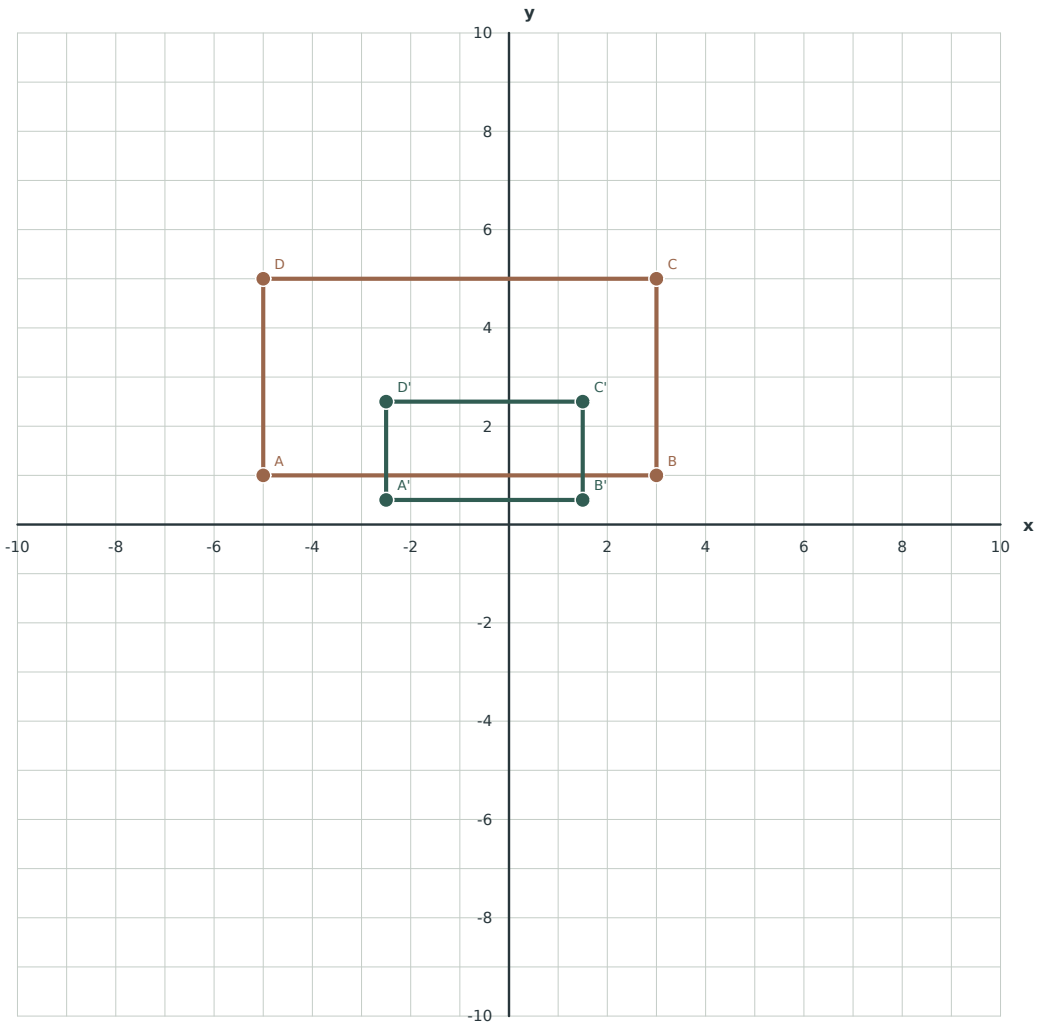
Half-size rectangle

Vertices in order: A(-5, 1); B(3, 1); C(3, 5); D(-5, 5).

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(-5/2, 1/2); B(3/2, 1/2); C(3/2, 5/2); D(-5/2, 5/2).

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

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