## NAME

2.

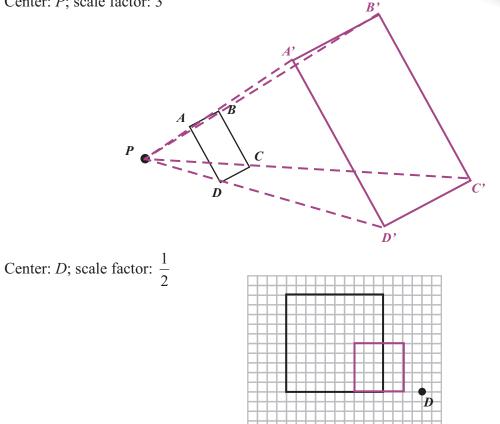
3.

## Module 11Transformations of ShapesLesson 3Dilations

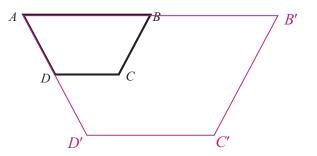
## Additional Practice 11.3

## Construct a dilation with the given center and scale factor.

1. Center: *P*; scale factor: 3



Center: A; scale factor: 2



4. A triangle with vertices A(-2, 3), B(0, -4), and C(6, -4) is dilated, and its image points are  $A'\left(-\frac{1}{2}, \frac{3}{4}\right)$ , B'(0, -1), and  $C'\left(1\frac{1}{2}, -1\right)$ . What was the scale factor? Was the dilation an enlargement or a reduction?

$$\frac{1}{4}$$
: reduction

5. A triangle with vertices A(0, 1), B(-2, -6), and C(1, -4) is dilated under a scale factor of  $2\frac{1}{2}$ . What are the coordinates of the vertices of the image? Was the dilation an enlargement or a reduction?

$$A'\left(0,2\frac{1}{2}\right), B'\left(-5,-15\right), C'\left(2\frac{1}{2},-10\right)$$
: enlargement

Draw the dilation with the given scale factor. The center of dilation is (0, 0).

