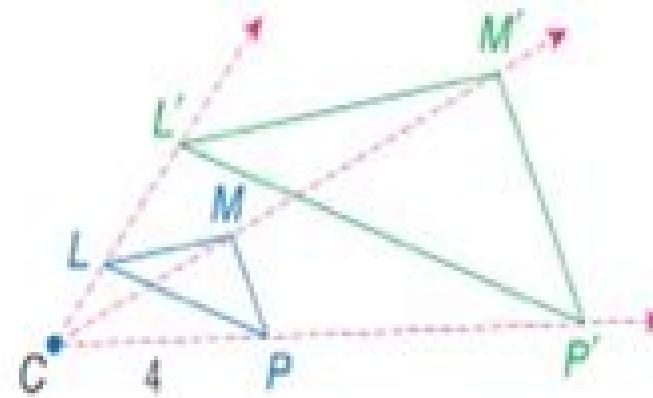


# Key Concepts

## KeyConcept Dilation

A dilation with center  $C$  and positive scale factor  $k$ ,  $k \neq 1$ , is a function that maps a point  $P$  in a figure to its image such that

- if point  $P$  and  $C$  coincide, then the image and preimage are the same point, or
- if point  $P$  is not the center of dilation, then  $P'$  lies on  $\overleftrightarrow{CP}$  and  $CP' = k(CP)$ .



$$4 \cdot 2.5 \text{ or } 10$$

$\triangle L'M'P'$  is the image of  $\triangle LMP$  under a dilation with center  $C$  and scale factor  $2.5$ .

# Ccgps Analytic Geometry Study Guide

**Adolph Winkler Goodman,Cynthia  
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