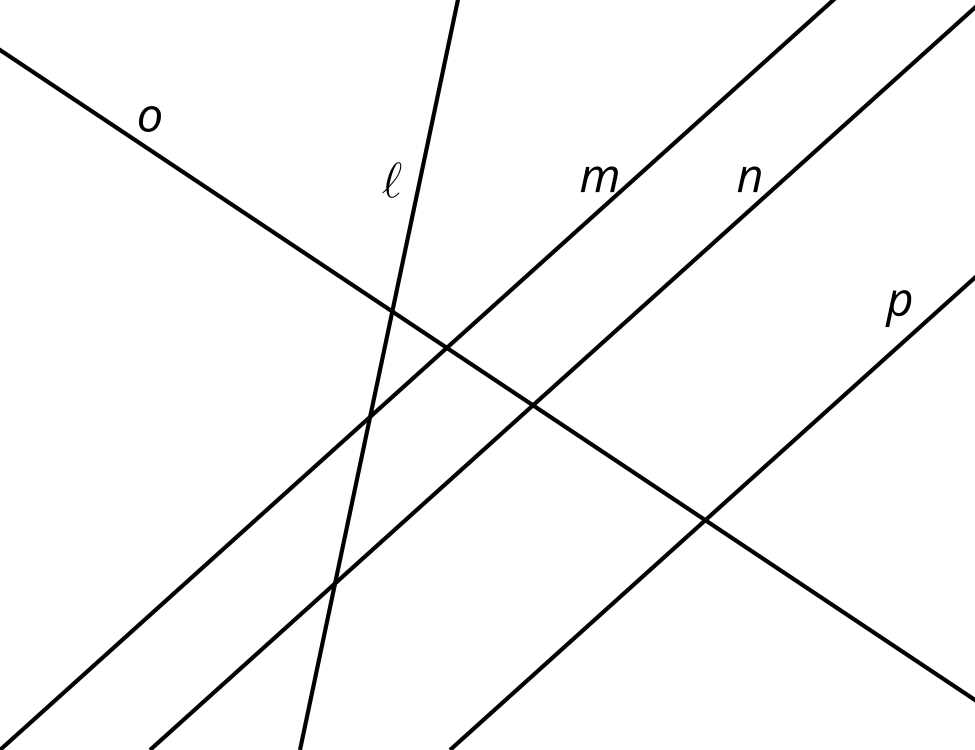
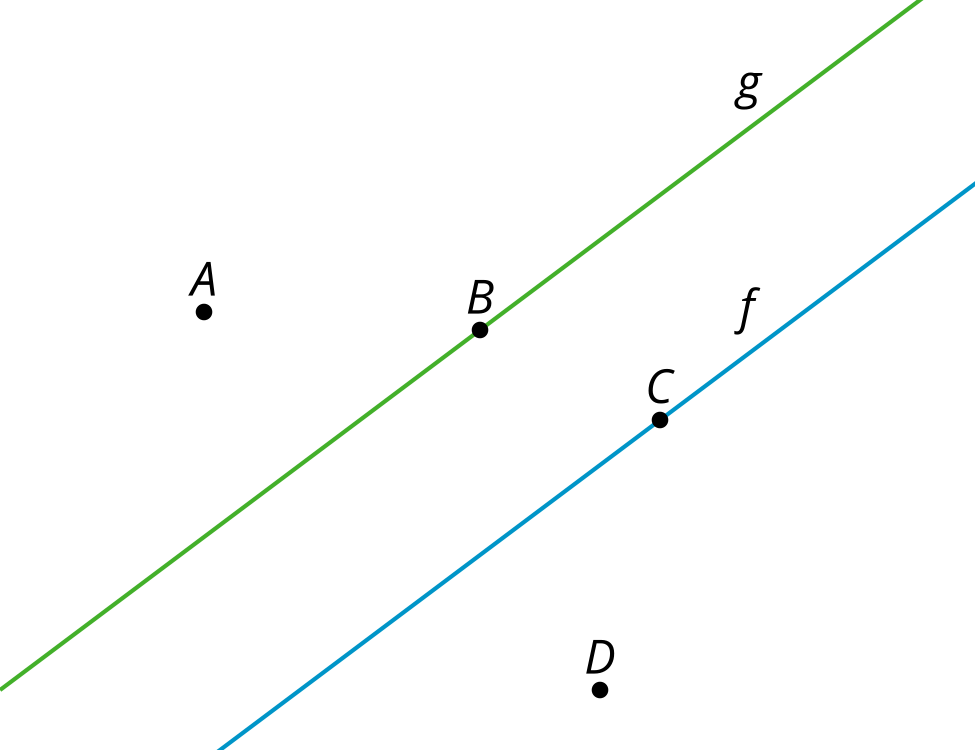
### Lesson 4 Practice Problems

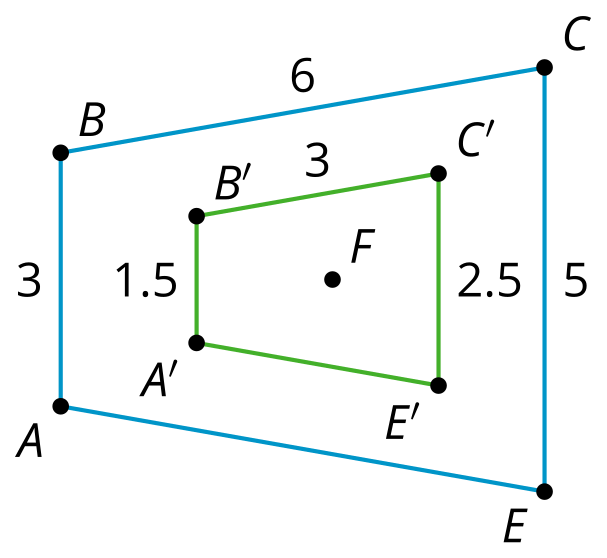
1. Angle is taken by a dilation with center and scale factor 3 to angle . The measure of angle is . What is the measure of angle ?
2. Select **all** lines that could be the image of line by a dilation.

* 

1. Dilate line with a scale factor of 2. The image is line . Which labeled point could be the center of this dilation?

* 

1. Quadrilateral is the image of quadrilateral after a dilation centered at . What is the scale factor of this dilation?

* 
* (From Unit 3, Lesson 3.)

1. A polygon has a perimeter of 18 units. It is dilated with a scale factor of . What is the perimeter of its image?
   1. 12 units
   2. 24 units
   3. 27 units
   4. 30 units

* (From Unit 3, Lesson 3.)

1. Solve the equation.

* (From Unit 3, Lesson 1.)

1. Here are some measurements for triangle  and triangle :
   * Angle  and angle  are both 30 degrees
   * and both measure 3 units
   * and both measure 2 units

* Andre thinks thinks these triangles must be congruent. Clare says she knows they might not be congruent. Construct 2 triangles with the given measurements that aren't congruent. Explain why triangles with 3 congruent parts aren't necessarily congruent.
* (From Unit 2, Lesson 11.)



© CC BY 2019 by Illustrative Mathematics®