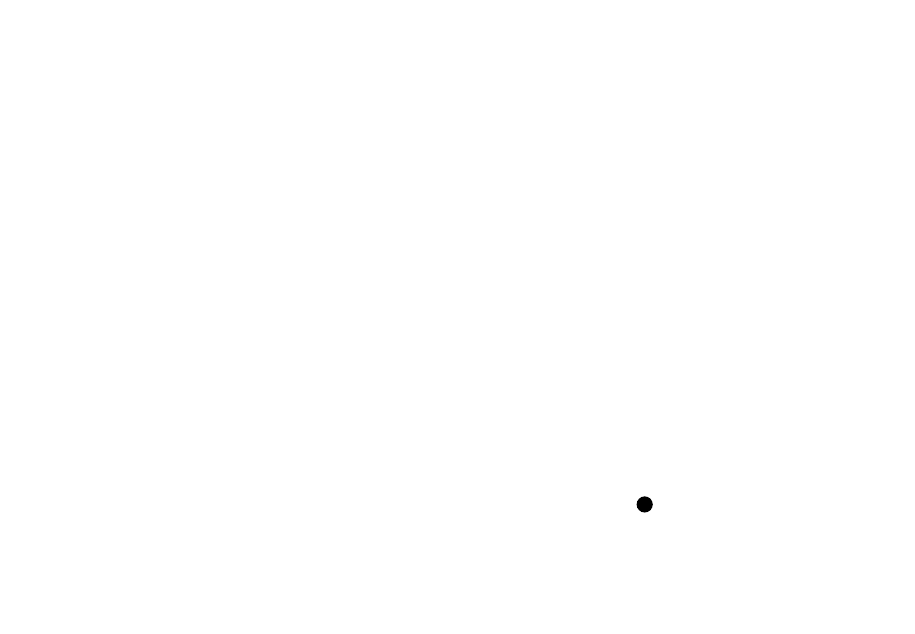
### Lesson 5 Practice Problems

1. What is the measure of angle ?

* 

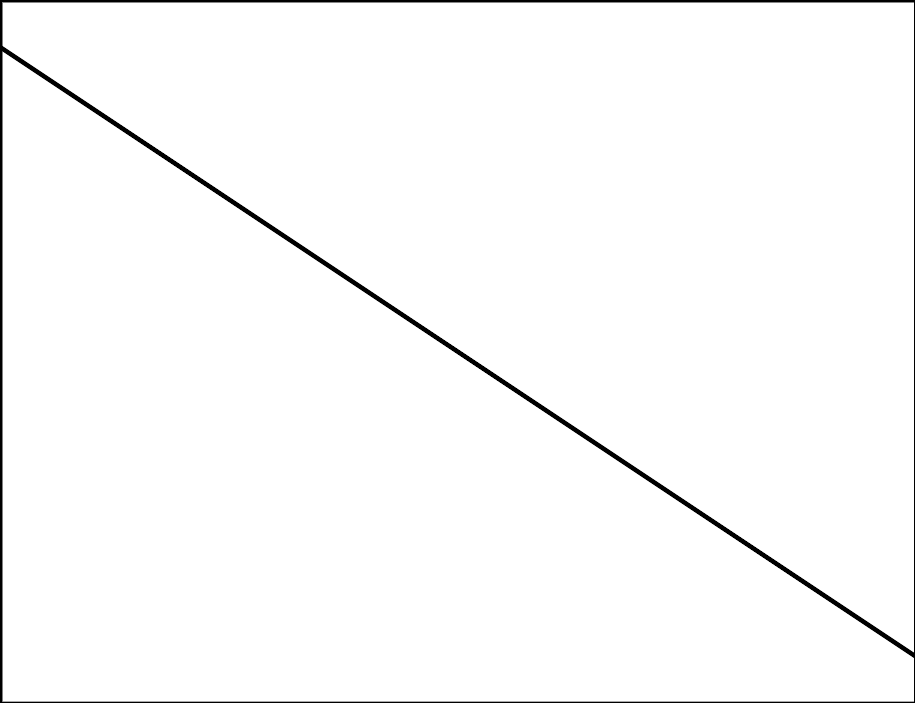
1. Triangle is formed by connecting the midpoints of the sides of triangle . The lengths of the sides of are shown. What is the length of ?

* 

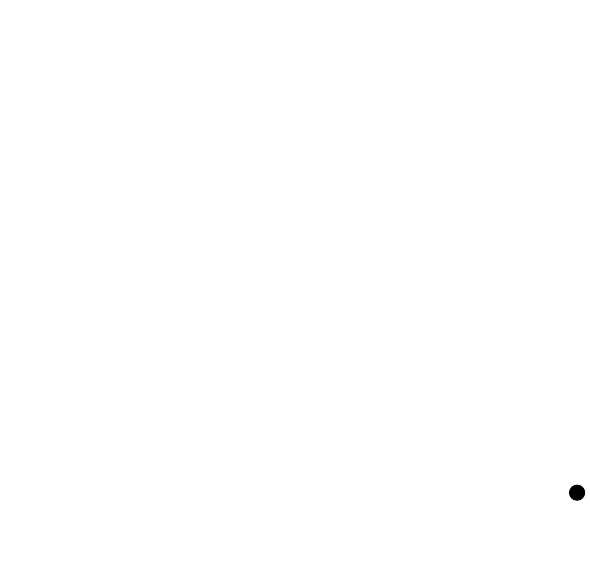
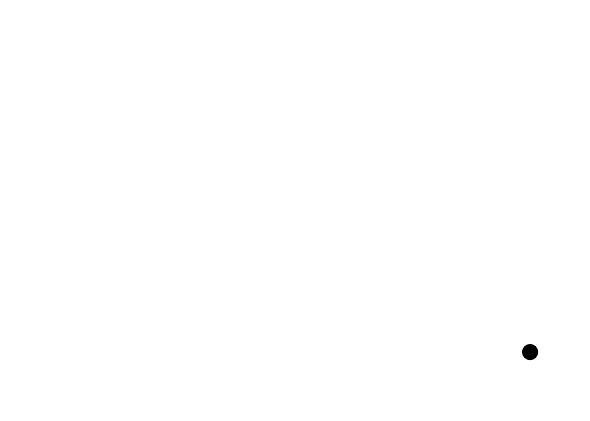
1. Angle is taken by a dilation with center and scale factor to angle . The measure of angle is . What is the measure of angle ?

* (From Unit 3, Lesson 4.)

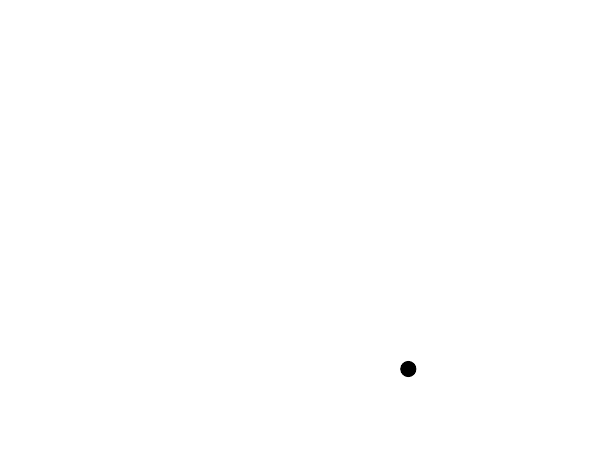
1. Draw 2 lines that could be the image of line by a dilation. Label the lines and .

* 
* (From Unit 3, Lesson 4.)

1. Is it possible for polygon to be dilated to figure ? Explain your reasoning.

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* (From Unit 3, Lesson 3.)

1. Triangle is scaled and the image is . Write 2equations that could be used to solve for .

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* (From Unit 3, Lesson 2.)
  1. Lin is using the diagram to prove the statement, “If a parallelogram has one right angle, it is a rectangle.” Given that is a parallelogram and angle is a right angle, write a statement that will help prove angle is also a right angle.
  2. Han then states that the 2 triangles created by diagonal  must be congruent. Help Han write a proof that triangle  is congruent to triangle .
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* (From Unit 2, Lesson 12.)



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