### Lesson 3 Practice Problems

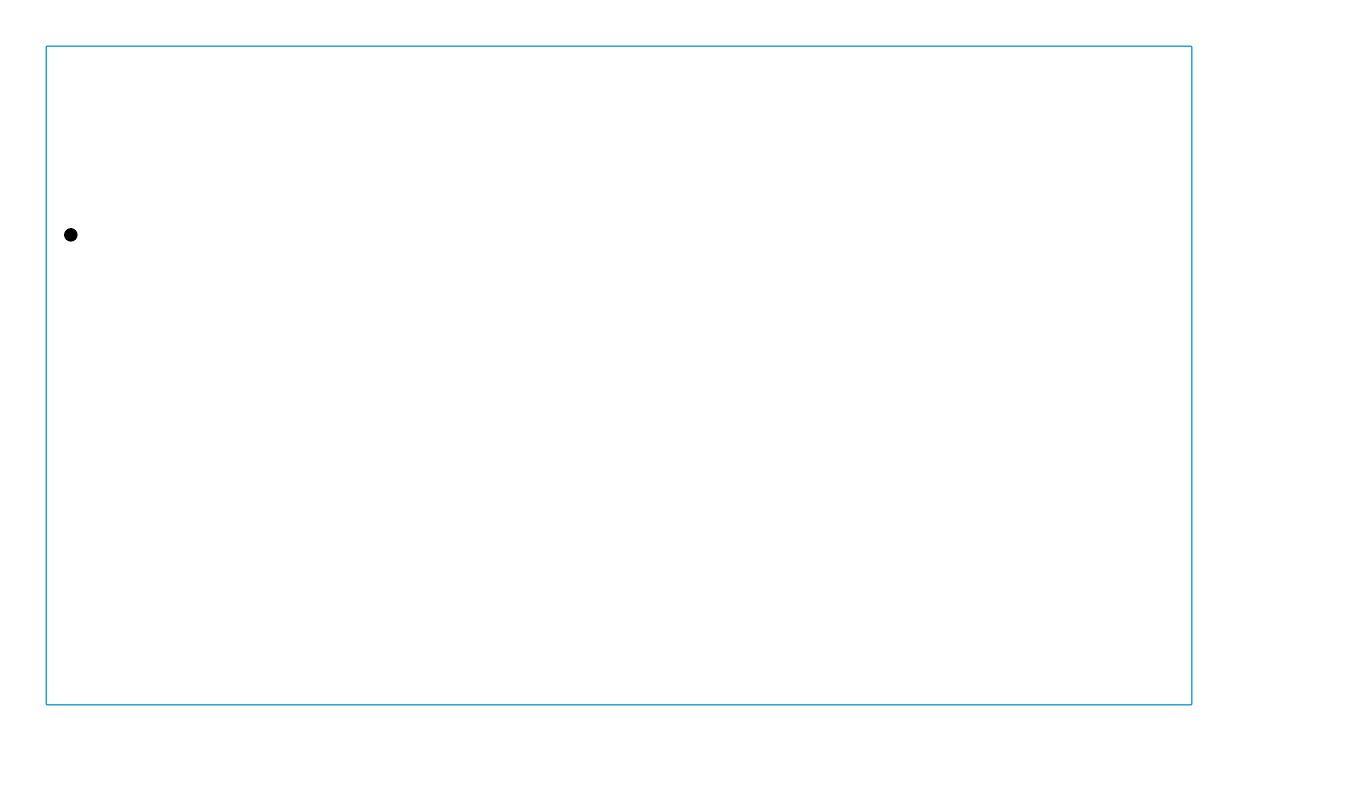
1. Pentagon is the image of pentagon  after a dilation centered at . What is the scale factor of this dilation?

* 

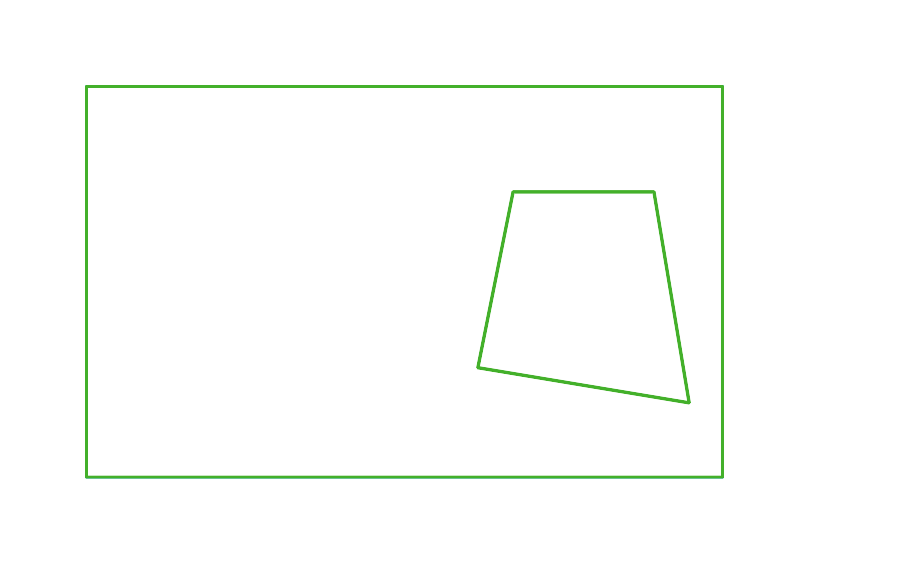
1. A polygon has perimeter 12 units. It is dilated with a scale factor of . What is the perimeter of its image?
   1. 9 units
   2. 12 units
   3. 16 units
   4. It cannot be determined.
2. Triangle is taken to triangle by a dilation. Which of these scale factors for the dilation would result in an image that was *larger* than the original figure?
   1. 1
3. Dilate quadrilateral using center and scale factor 2.

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* (From Unit 3, Lesson 2.)

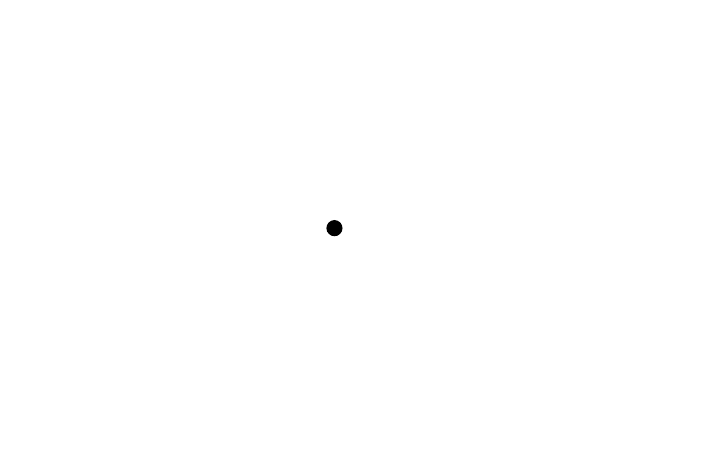
1. Dilate Figure using center  and scale factor 3.

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* (From Unit 3, Lesson 2.)

1. Polygon Q is a scaled copy of Polygon P.

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* The value of is 6, what is the scale factor?
  1. 3
  2. 4
* (From Unit 3, Lesson 1.)

1. Prove that segment  is congruent to segment .

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* (From Unit 2, Lesson 10.)



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