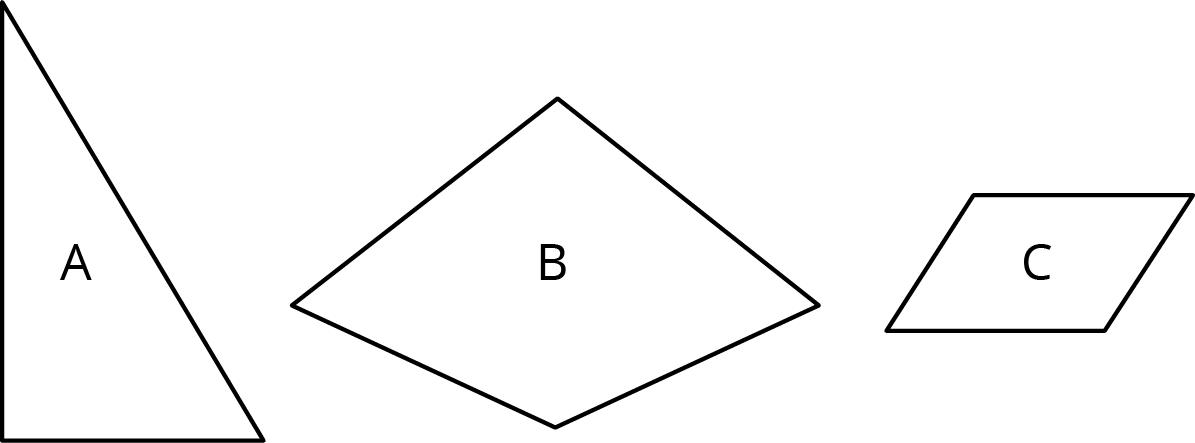
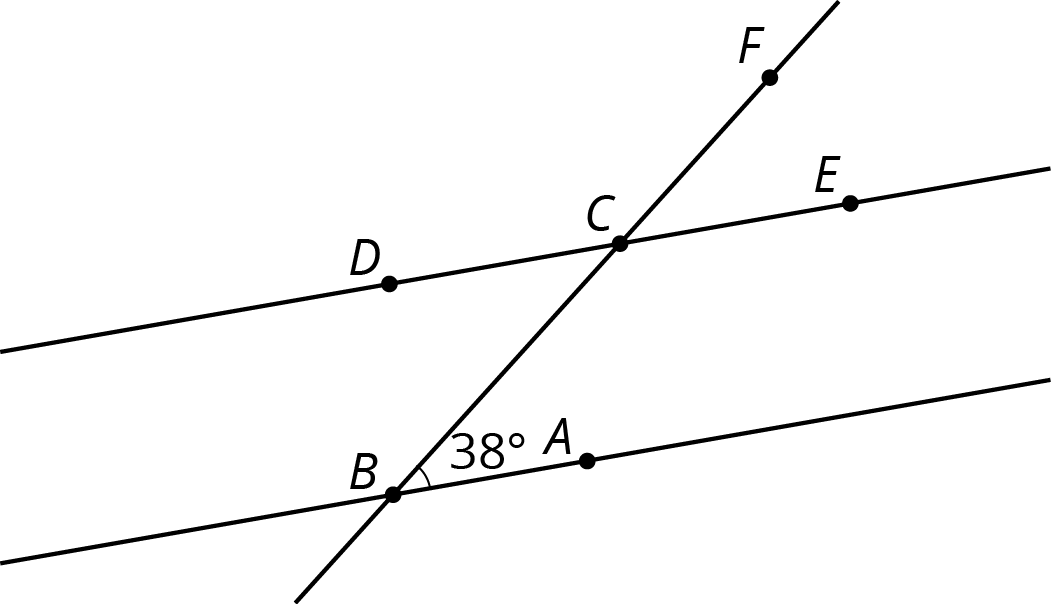
### Lesson 8 Practice Problems

1. Rectangle measures 12 cm by 3 cm. Rectangle is a scaled copy of Rectangle . Select **all** of the measurement pairs that could be the dimensions of Rectangle .
   1. 6 cm by 1.5 cm
   2. 10 cm by 2 cm
   3. 13 cm by 4 cm
   4. 18 cm by 4.5 cm
   5. 80 cm by 20 cm
2. Rectangle has length 12 and width 8. Rectangle has length 15 and width 10. Rectangle has length 30 and width 15.
   1. Is Rectangle a scaled copy of Rectangle ? If so, what is the scale factor?
   2. Is Rectangle a scaled copy of Rectangle ? If so, what is the scale factor?
   3. Explain how you know that Rectangle is *not* a scaled copy of Rectangle .
   4. Is Rectangle a scaled copy of Rectangle ? If so, what is the scale factor?
3. Here are three polygons.

* 
  1. Draw a scaled copy of Polygon A with scale factor .
  2. Draw a scaled copy of Polygon B with scale factor 2.
  3. Draw a scaled copy of Polygon C with scale factor .

1. In the picture lines and are parallel. Find the measures of the following angles. Explain your reasoning.

* 
* (From Unit 1, Lesson 12.)

1. Which of these sets of angle measures could be the three angles in a triangle?
   1. , ,
   2. , ,
   3. , ,
   4. , ,

* (From Unit 1, Lesson 13.)

1. Quadrilateral A has side lengths 3, 6, 6, and 9. Quadrilateral B is a scaled copy of A with a shortest side length equal to 2. Jada says, “Since the side lengths go down by 1 in this scaling, the perimeter goes down by 4 in total.” Do you agree with Jada? Explain your reasoning.

* (From Unit 2, Lesson 2.)



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