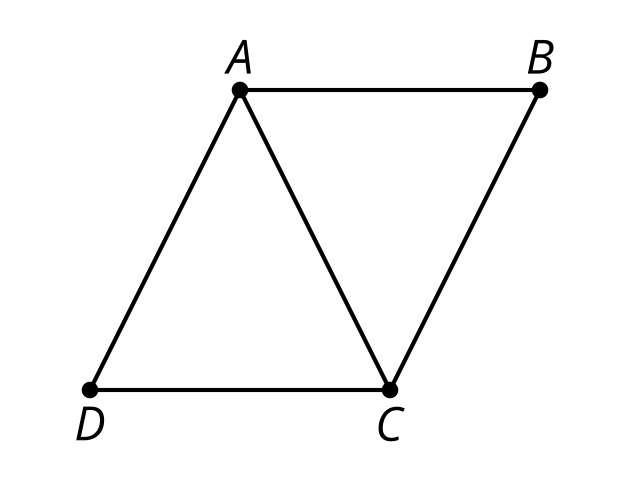
### Lesson 13 Practice Problems

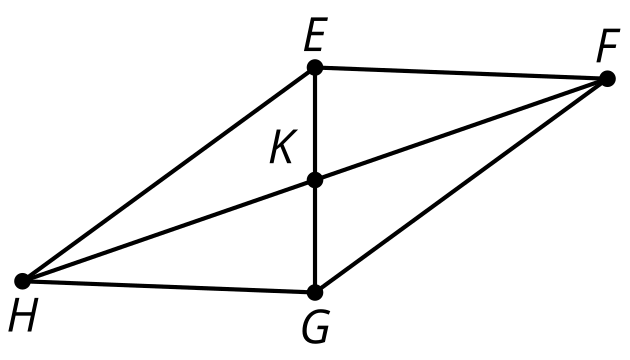
1. Conjecture: A quadrilateral with one pair of sides both congruent and parallel is a parallelogram.
   1. Draw a diagram of the situation.
   2. Mark the given information.
   3. Restate the conjecture as a specific statement using the diagram.
2. In quadrilateral , is congruent to , and is parallel to . Show that is a parallelogram.

* 

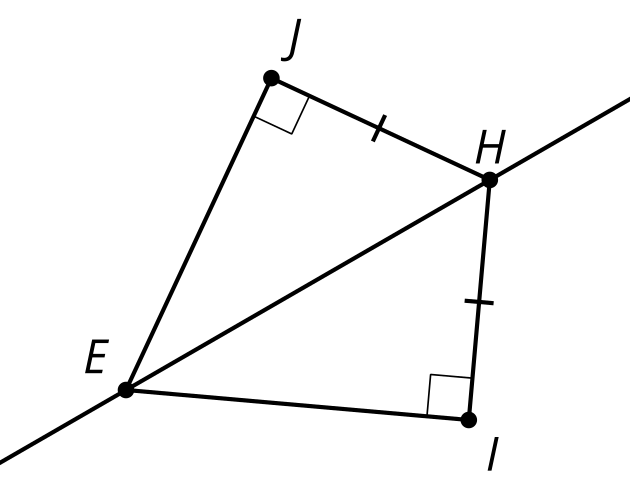
1. is an isosceles trapezoid. Name one pair of congruent triangles that could be used to show that the diagonals of an isosceles trapezoid are congruent.

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* (From Unit 2, Lesson 12.)

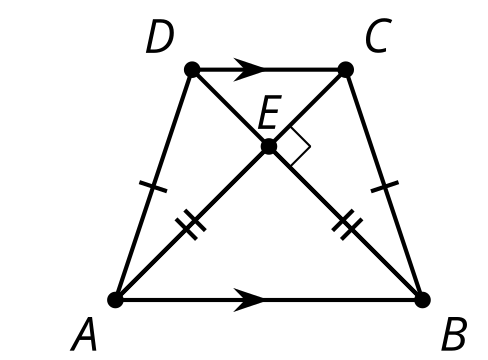
1. Select the conjecture with the rephrased statement of proof to show the diagonals of a parallelogram bisect each other.

* 
  1. In parallelogram , show triangle is congruent to triangle .
  2. In parallelogram , show triangle is congruent to triangle .
  3. In parallelogram , show  is congruent to and  is congruent to .
  4. In quadrilateral with congruent to and congruent to , show is a parallelogram.
* (From Unit 2, Lesson 12.)

1. Is triangle congruent to triangle ?  
   Explain your reasoning.

* 
* (From Unit 2, Lesson 11.)

1. Select **all** true statements based on the diagram.

* 
  1. Segment is congruent to segment .
  2. Segment is congruent to segment .
  3. Line is parallel to line .
  4. Line is parallel to line .
  5. Angle is congruent to angle .
  6. Angle is congruent to angle .
* (From Unit 2, Lesson 10.)

1. Which conjecture is possible to prove?
   1. If the four angles in a quadrilateral are congruent to the four angles in another quadrilateral, then the two quadrilaterals are congruent.
   2. If the four sides in a quadrilateral are congruent to the four sides in another quadrilateral, then the two quadrilaterals are congruent.
   3. If the three angles in a triangle are congruent to the three angles in another triangle, then the two triangles are congruent.
   4. If the three sides in a triangle are congruent to the three sides in another triangle, then the two triangles are congruent.

* (From Unit 2, Lesson 5.)



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