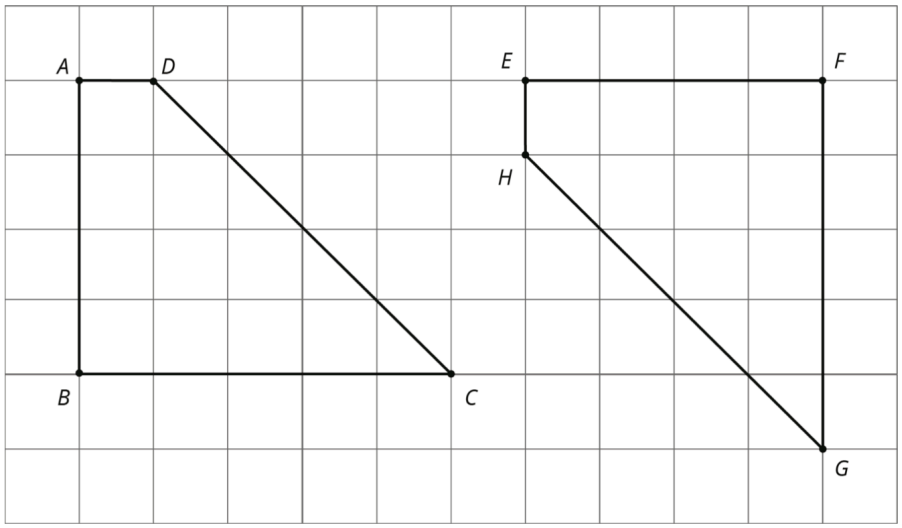
HOMEWORK 9.17.18 *Due 9.18.18* Name: _____ Period: __

Unit 1, Lesson 12: Congruent Polygons → You may find tracing paper useful. ←

Describe a sequence of reflections, rotations, and translations that shows that quadrilateral $ABCD$ is congruent to quadrilateral $EFGH$.

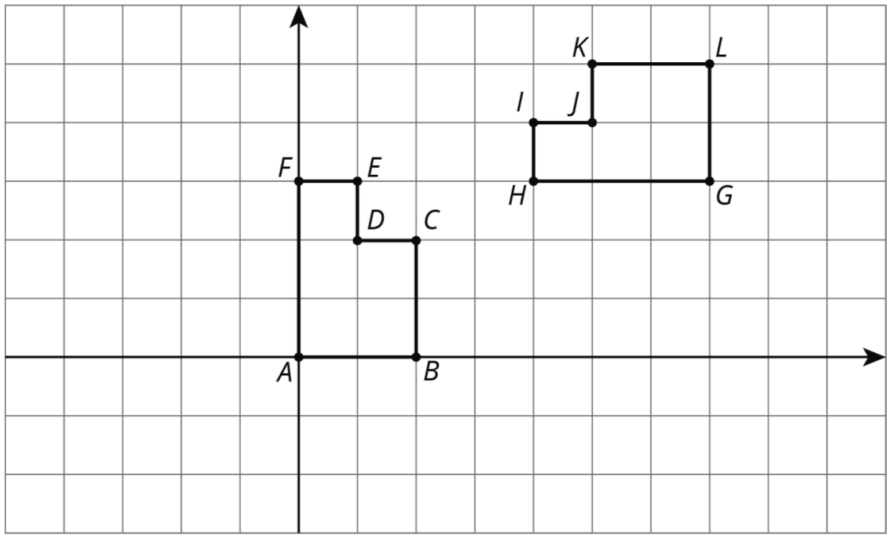


Vocabulary that should be used in your description to the right:

- **Rotation, Reflection, Translation or any combination of the three.**
- **Quadrilateral ABCD and Quadrilateral EFGH**
- **Depending on which transformations you use, include words such as Clockwise, Counter Clockwise, Line of Reflection, Direction of Translation and number of units Up, Down, Left, or Right.**

Write your description here:

For each pair of shapes, decide whether or not the two shapes are congruent. Explain your reasoning.



Vocabulary that should be used in your description to the right:

- **Any vocabulary used in the first problem**
- **In addition, speak about what it means to be *congruent*.**
- **Describe corresponding points if they exist.**
- **Choose one figure to be your pre-image and see if the other figure is the resulting image from any sequence of transformations.**

Write your description here: