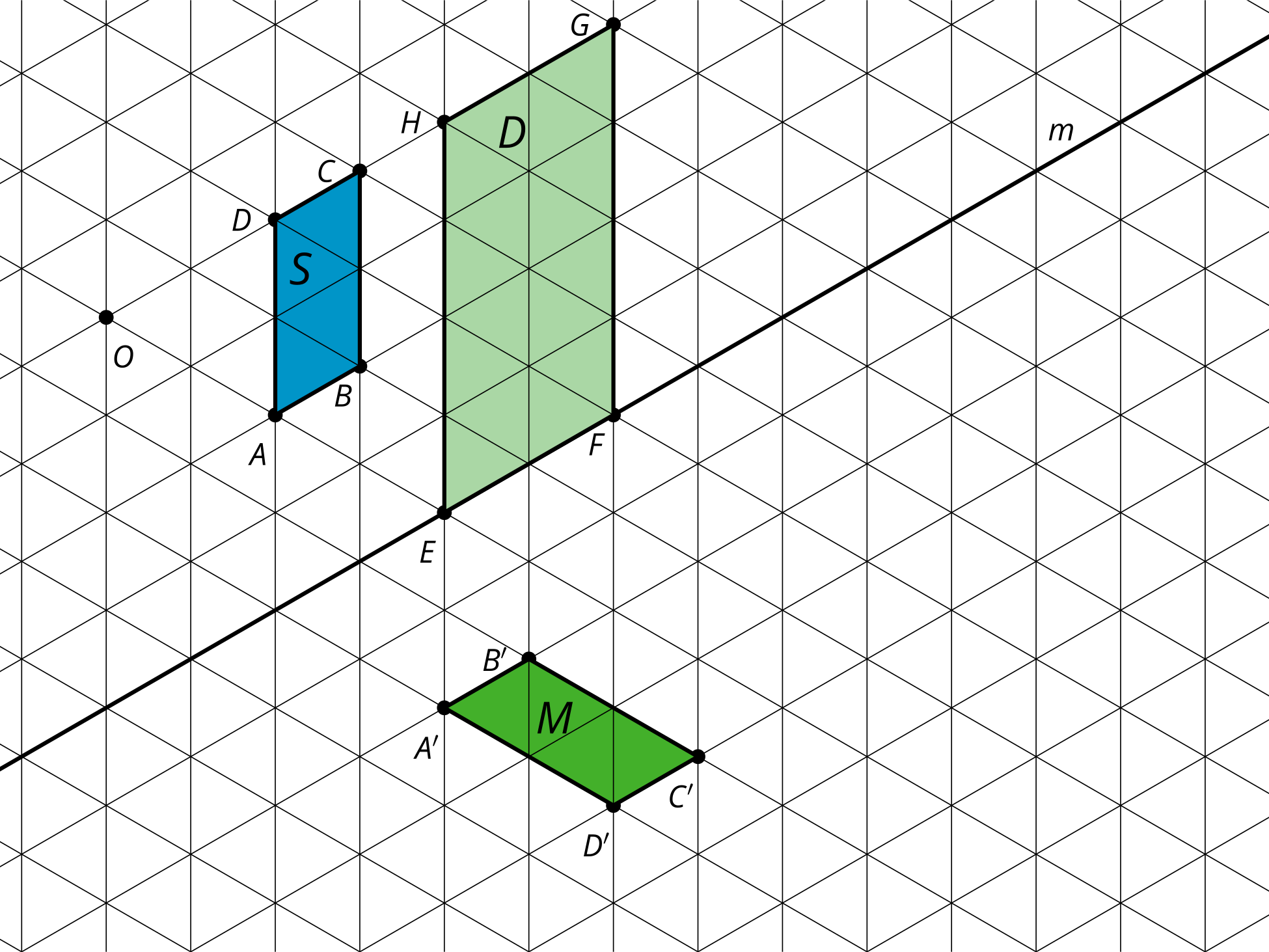
## Unit 1 Lesson 10: Rigid Transformations

### 1 Notice and Wonder: Transformed (Warm up)

#### Student Task Statement

What do you notice? What do you wonder?

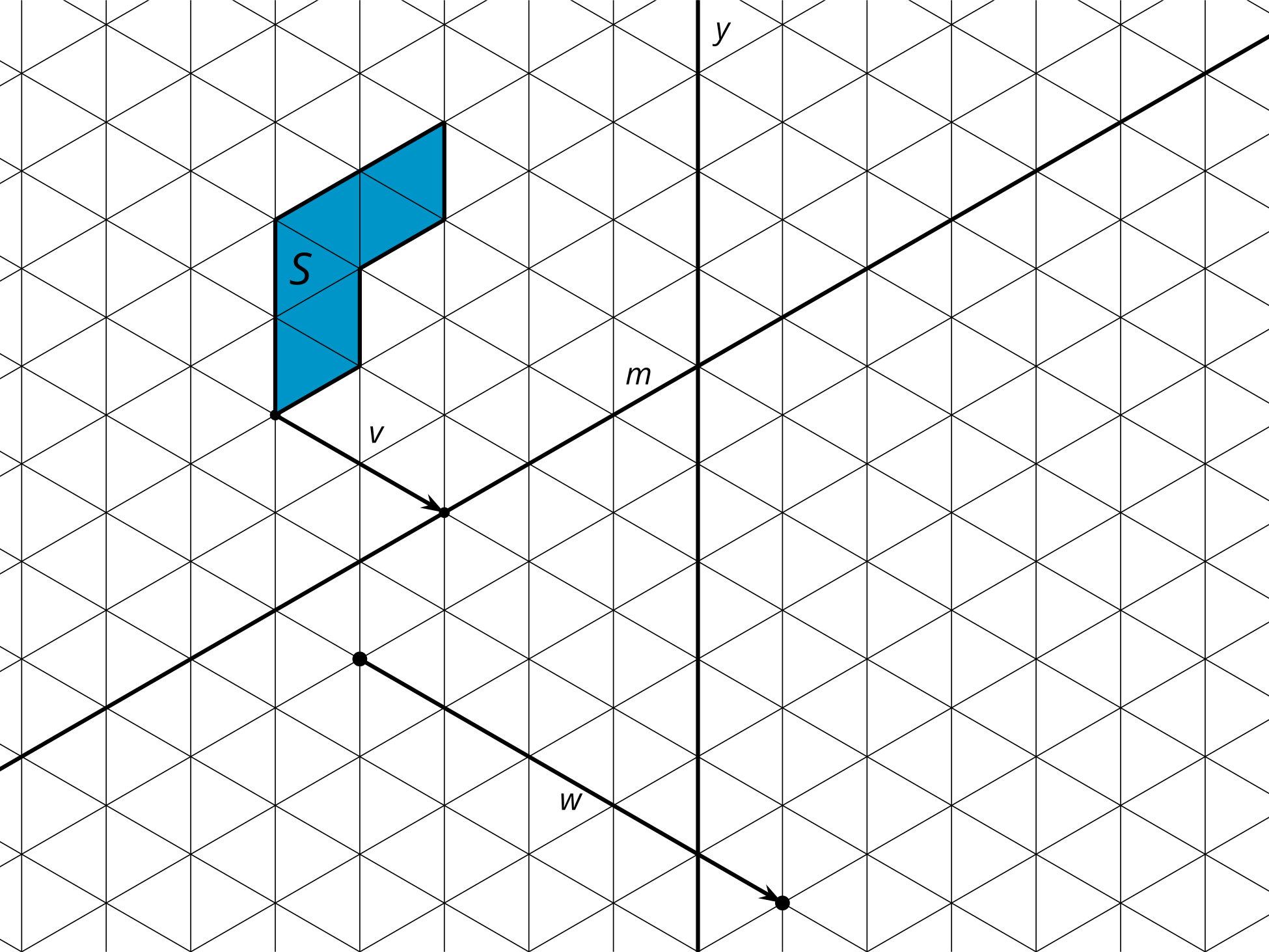


### 2 What’s the Same?

#### Images for Launch



#### Student Task Statement



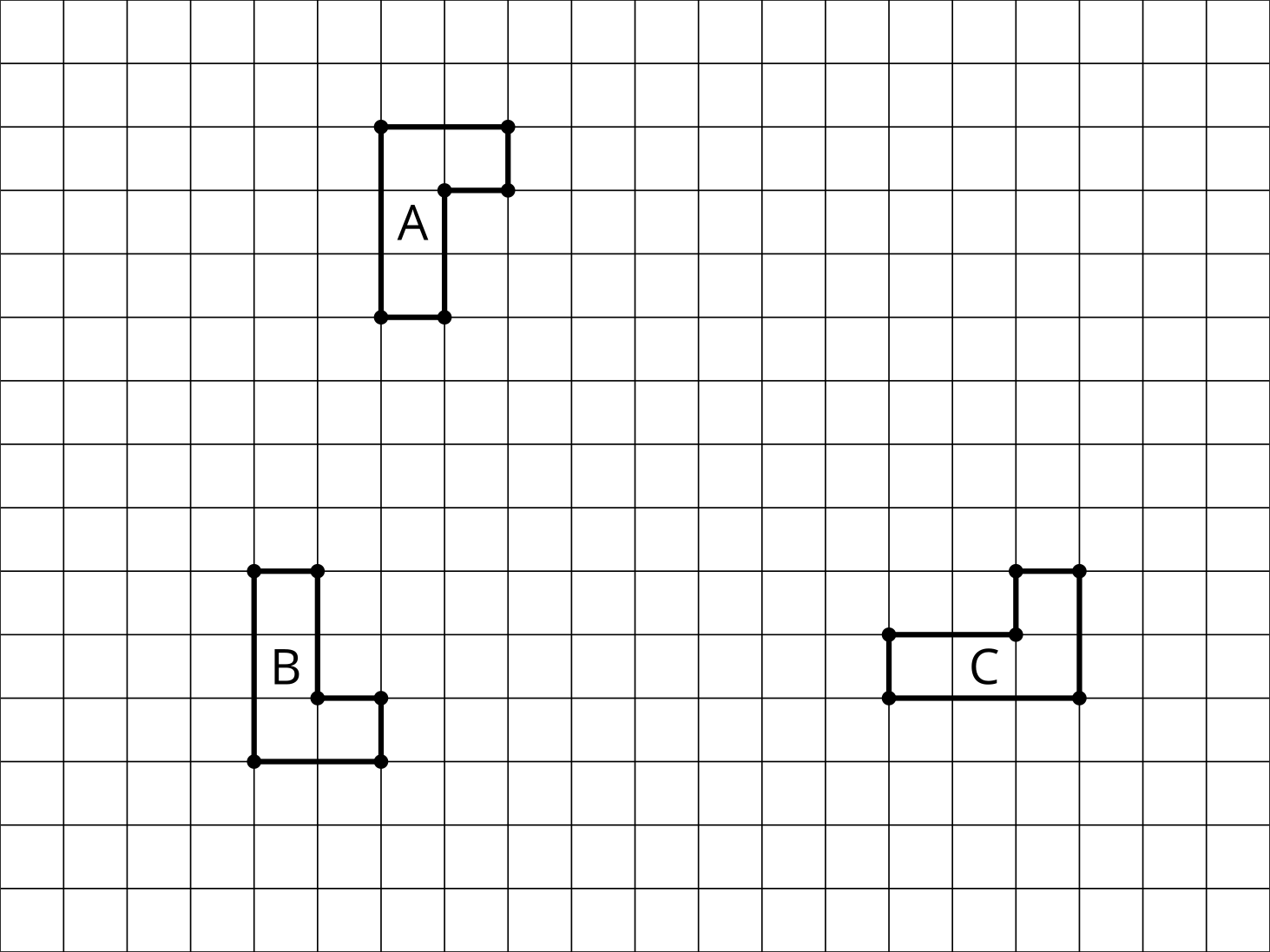
Draw each **rigid transformation** in a different color.

1. **Translate** figure along the line segment in the direction shown by the arrow. Color: \_\_\_\_\_\_\_\_\_\_\_\_\_
2. **Reflect** figure across line . Color: \_\_\_\_\_\_\_\_\_\_\_\_\_
3. Reflect figure  across line . Color: \_\_\_\_\_\_\_\_\_\_\_\_\_
4. Translate figure  along the line segment  in the direction shown by the arrow. Reflect this **image** across line . Color: \_\_\_\_\_\_\_\_\_\_\_\_\_
5. How are the images the same? How are they different?

### 3 Does Order Matter?

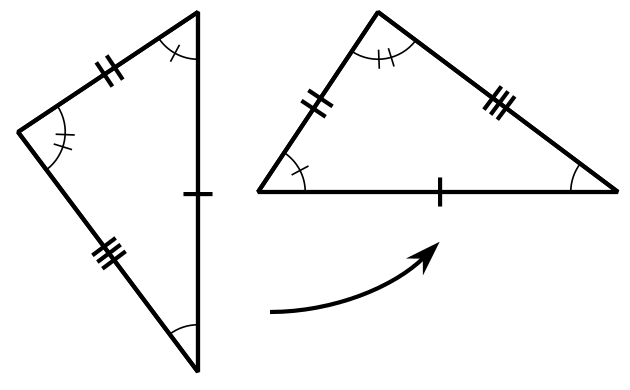
#### Student Task Statement

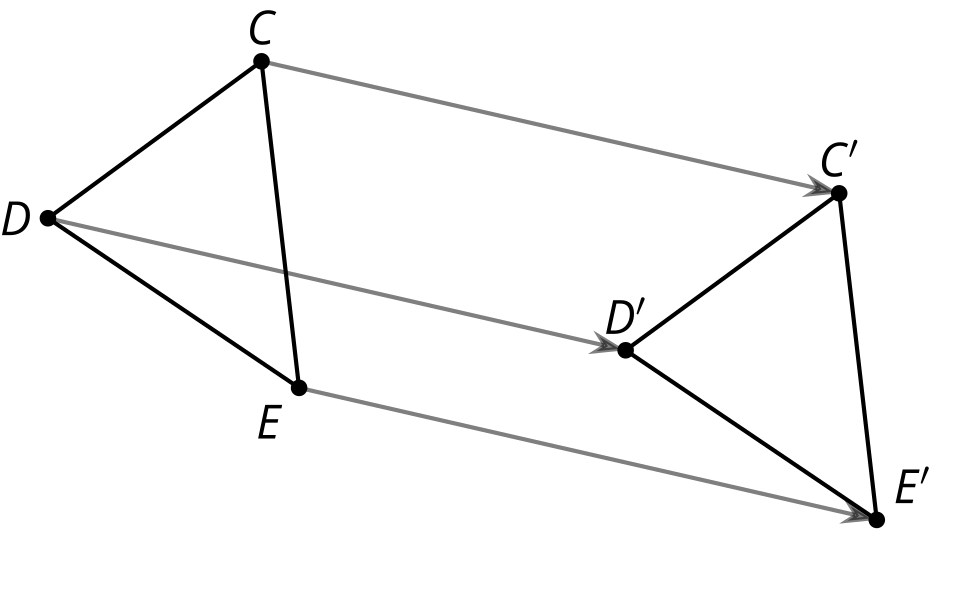
Here are 3 **congruent** L shapes on a grid.



1. Describe a sequence of transformations that will take Figure onto Figure .
2. If you reverse the order of your sequence, will the reverse sequence still take onto ?
3. Describe a sequence of transformations that will take Figure onto Figure .
4. If you reverse the order of your sequence, will the reverse sequence still take onto ?

#### Images for Activity Synthesis







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