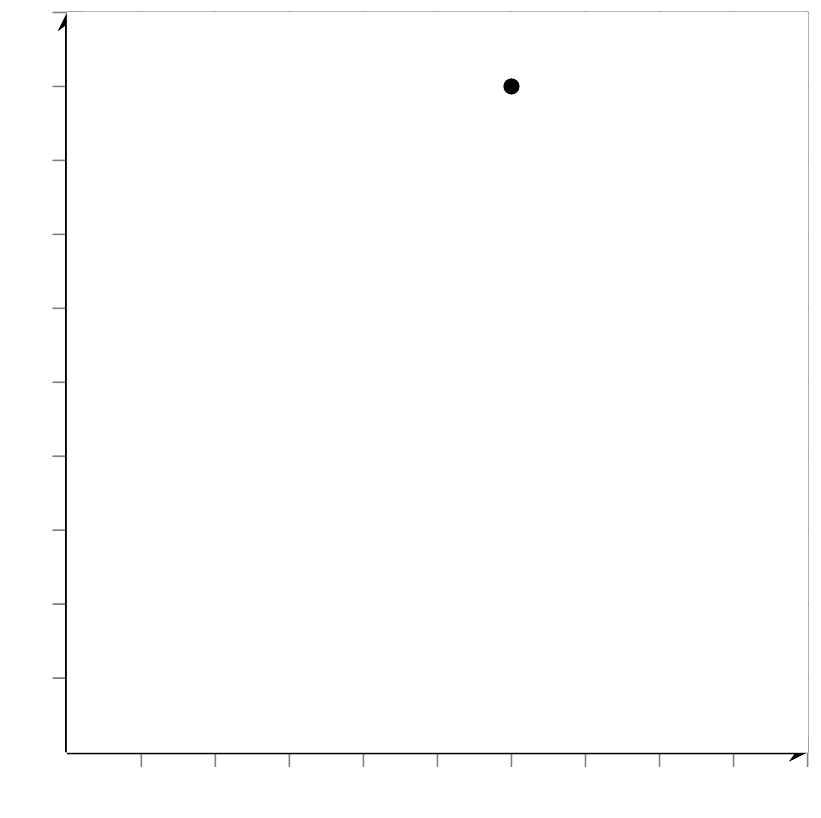
## Unit 6 Lesson 3: Types of Transformations

### 1 Why is it a Dilation? (Warm up)

#### Student Task Statement

Point was transformed using the coordinate rule .



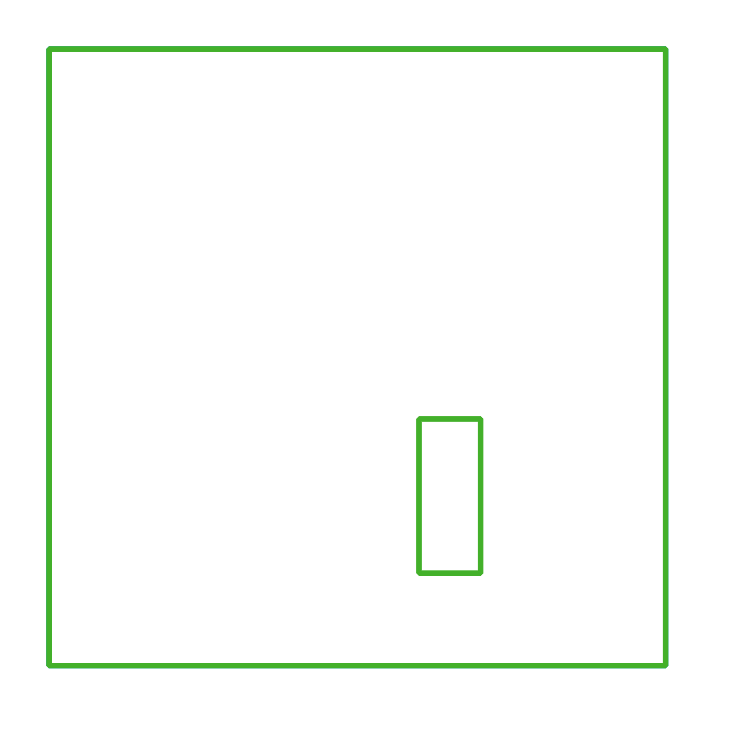
1. Add these auxiliary points and lines to create 2 right triangles: Label the origin . Plot points and . Draw segments  and .
2. How do triangles and compare? How do you know?
3. What must be true about the ratio ?

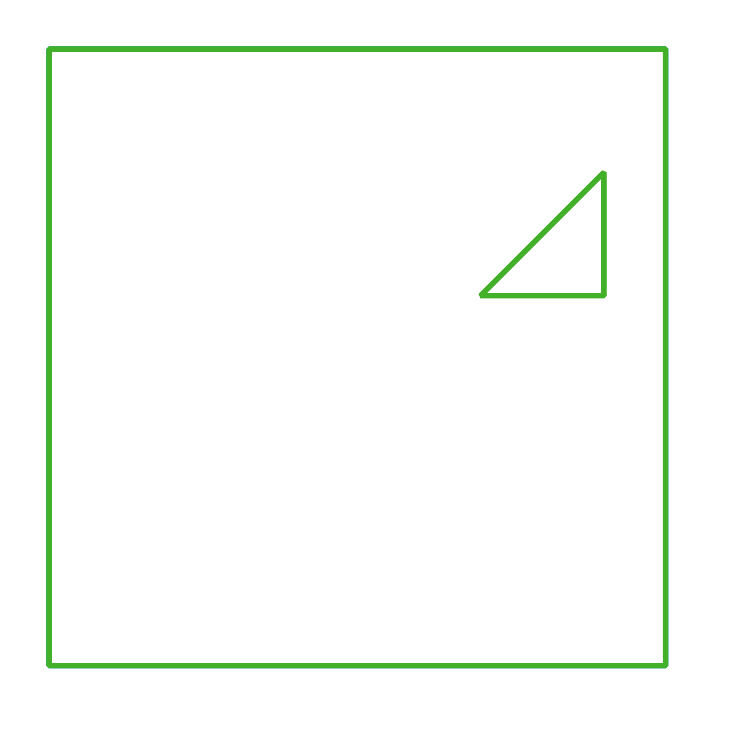
### 2 Congruent, Similar, Neither?

#### Student Task Statement

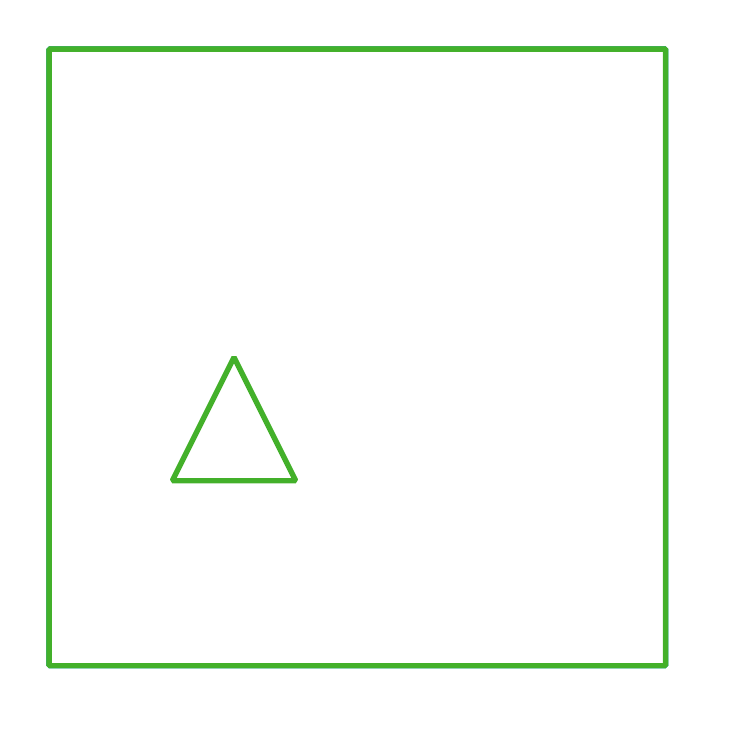
Match each image to its rule. Then, for each rule, decide whether it takes the original figure to a congruent figure, a similar figure, or neither. Explain or show your reasoning.

A

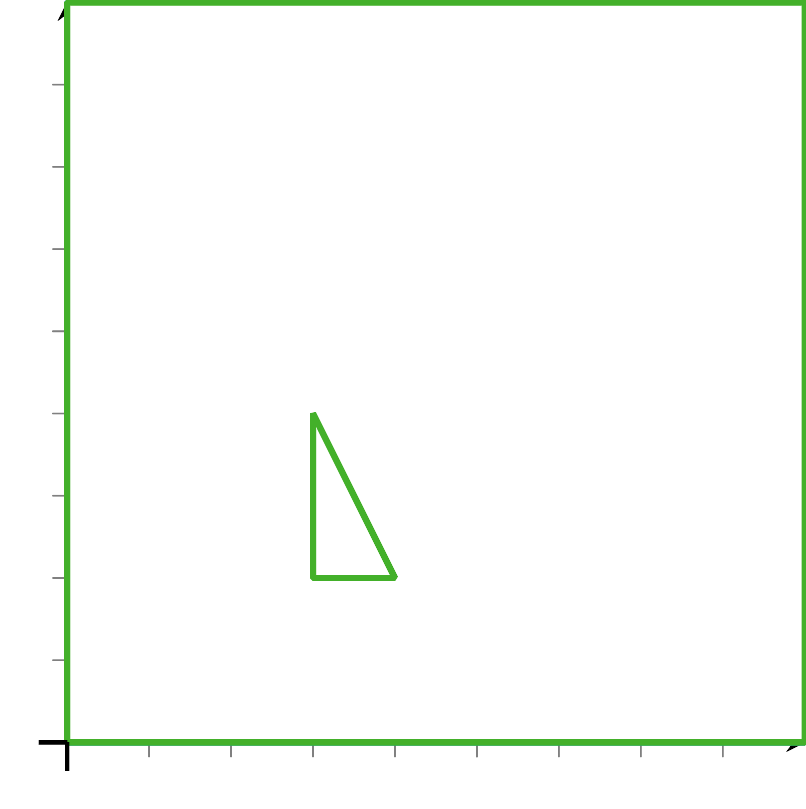


B

C

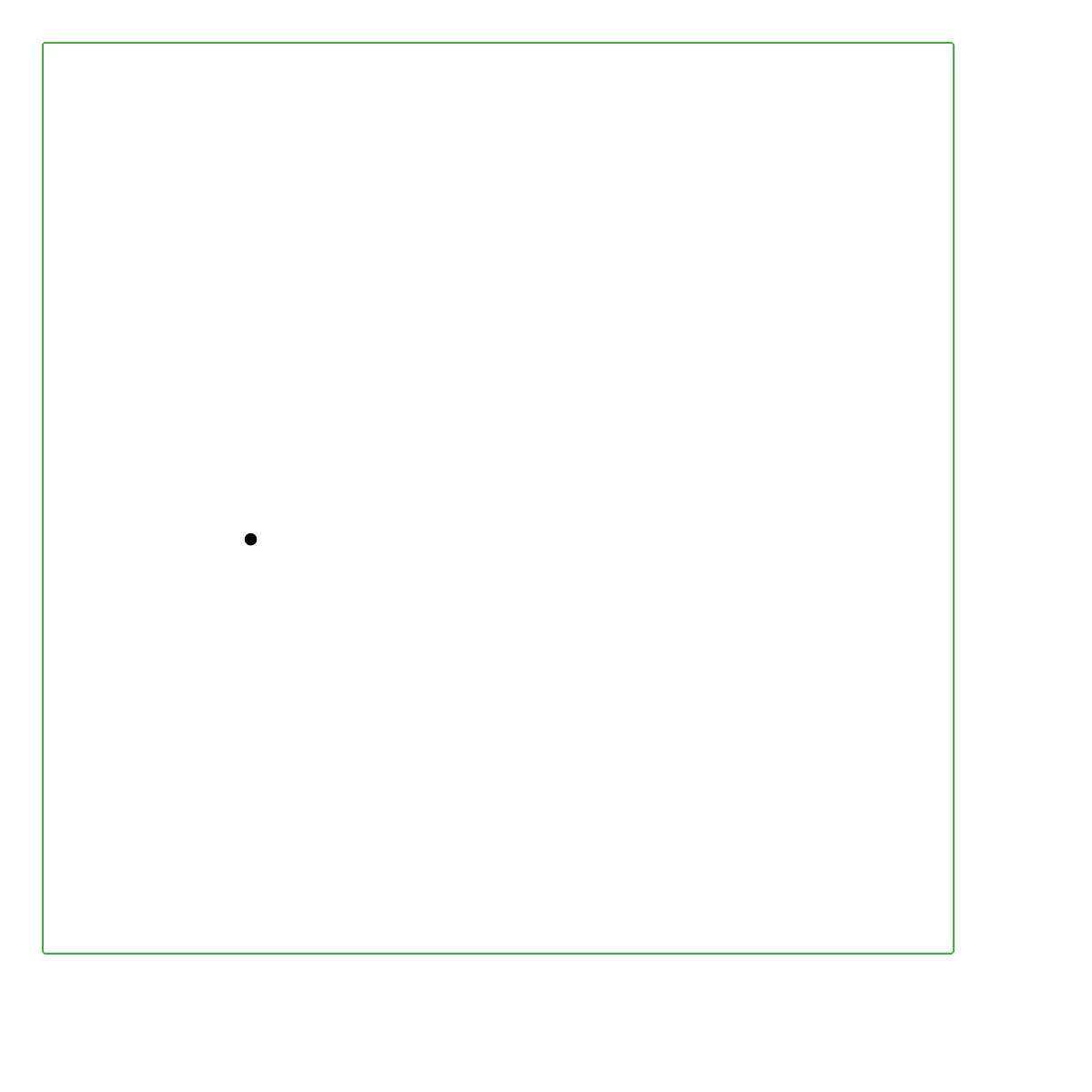


D



### 3 You Write the Rules

#### Student Task Statement



1. Write a rule that will transform triangle to triangle .
2. Are and congruent? Similar? Neither? Explain how you know.
3. Write a rule that will transform triangle to triangle .
4. Are and congruent? Similar? Neither? Explain how you know.



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