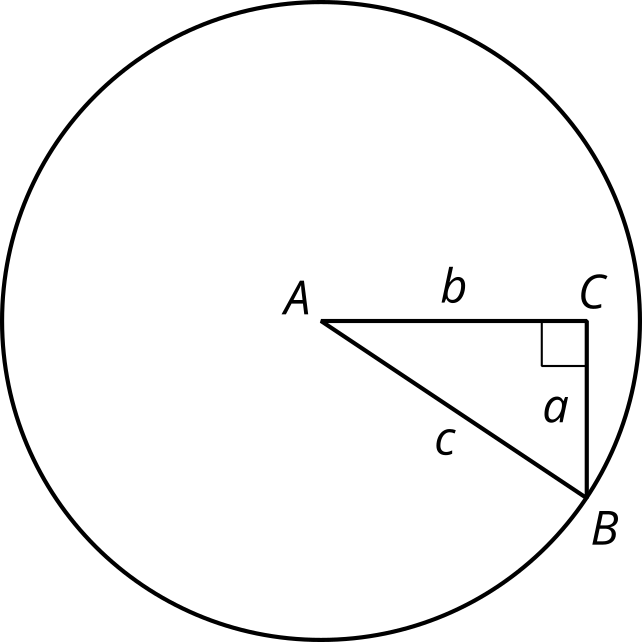
## Unit 6 Lesson 2: Revisiting Right Triangles

### 1 Notice and Wonder: A Right Triangle (Warm up)

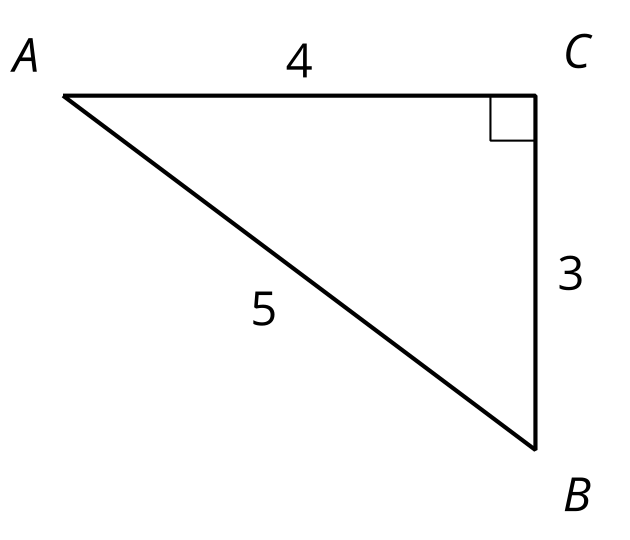
#### Student Task Statement

What do you notice? What do you wonder?



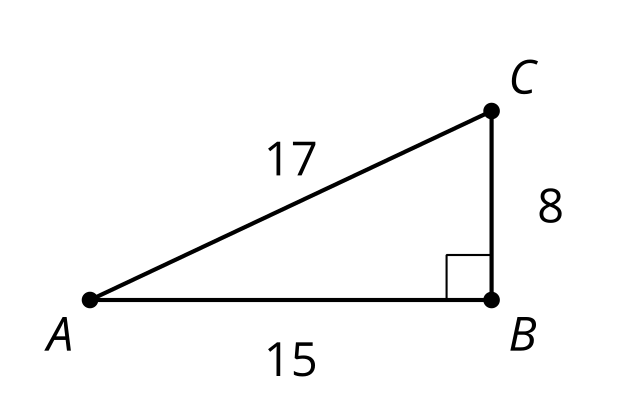
### 2 Recalling Right Triangle Trigonometry

#### Images for Launch

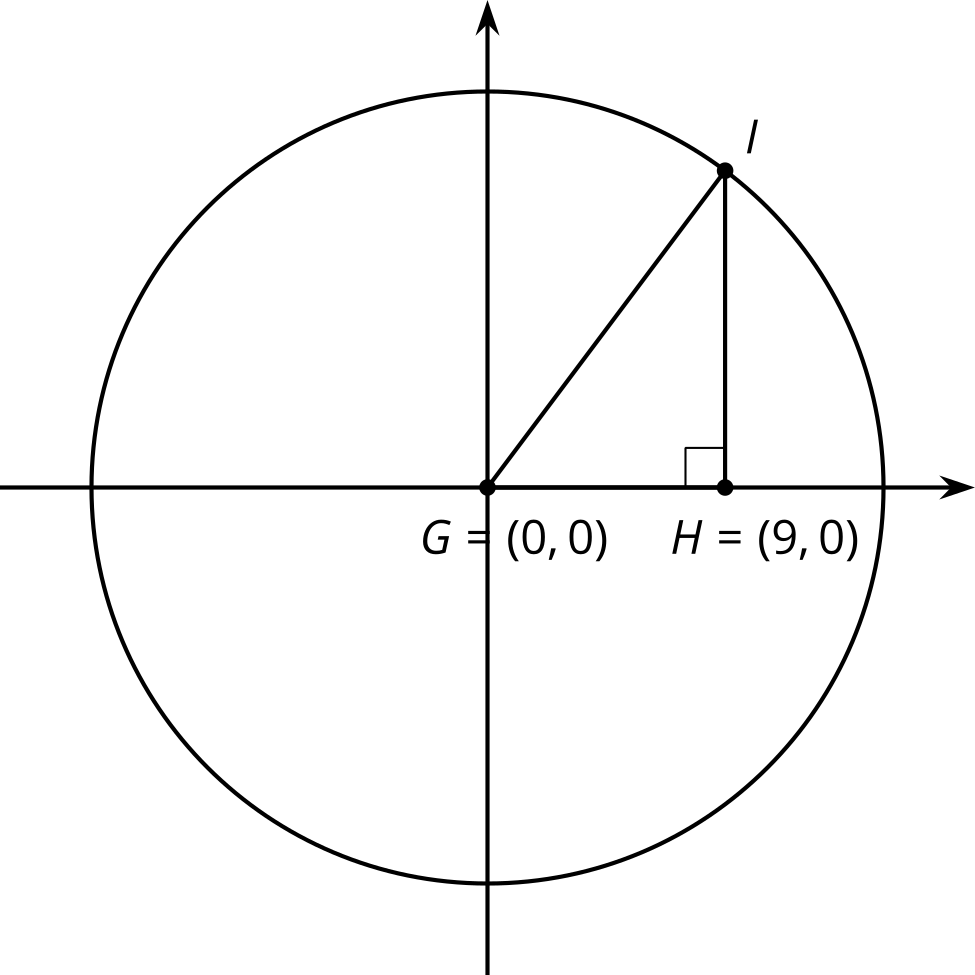


#### Student Task Statement

1. Find , , and for triangle .

* 

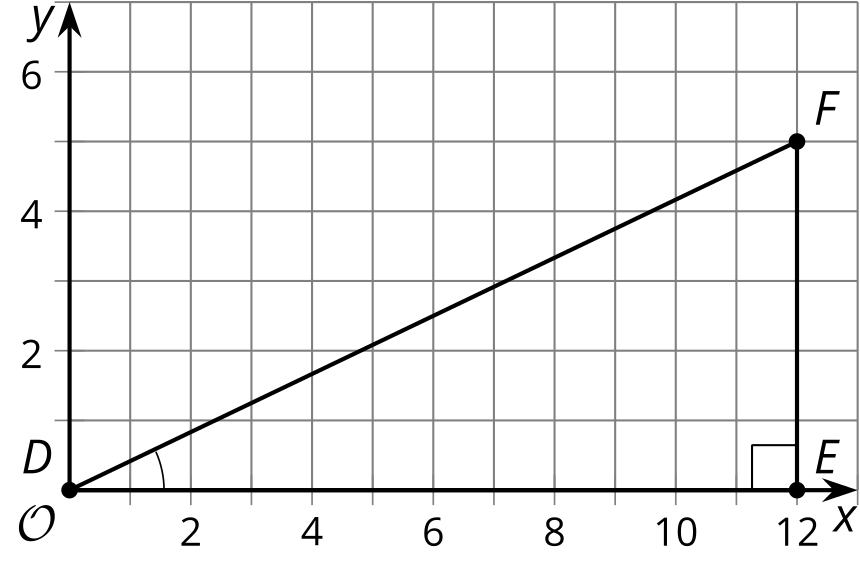
1. Sketch a triangle where and is a right angle. What is the value of for this triangle? Explain how you know.
2. If the coordinates of point are , what is the value of , , and for triangle ? Explain or show your reasoning.

* 

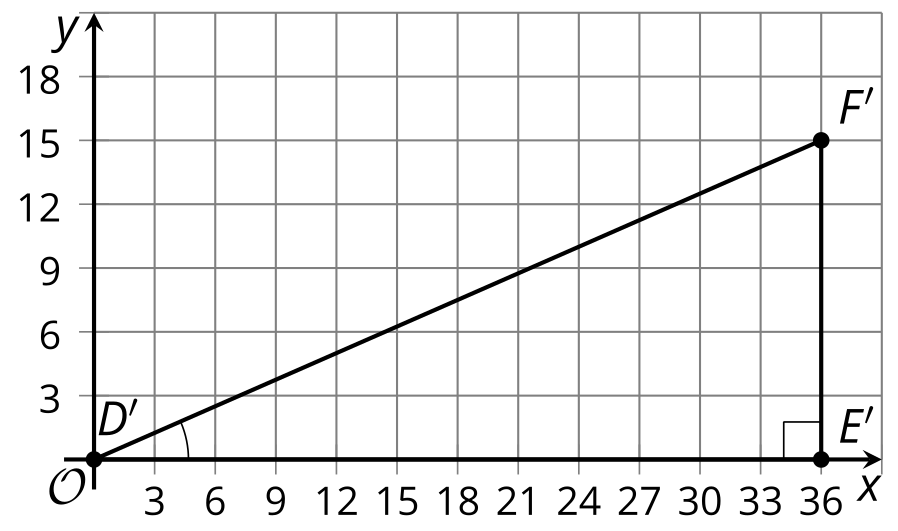
### 3 Shrinking Triangles

#### Student Task Statement

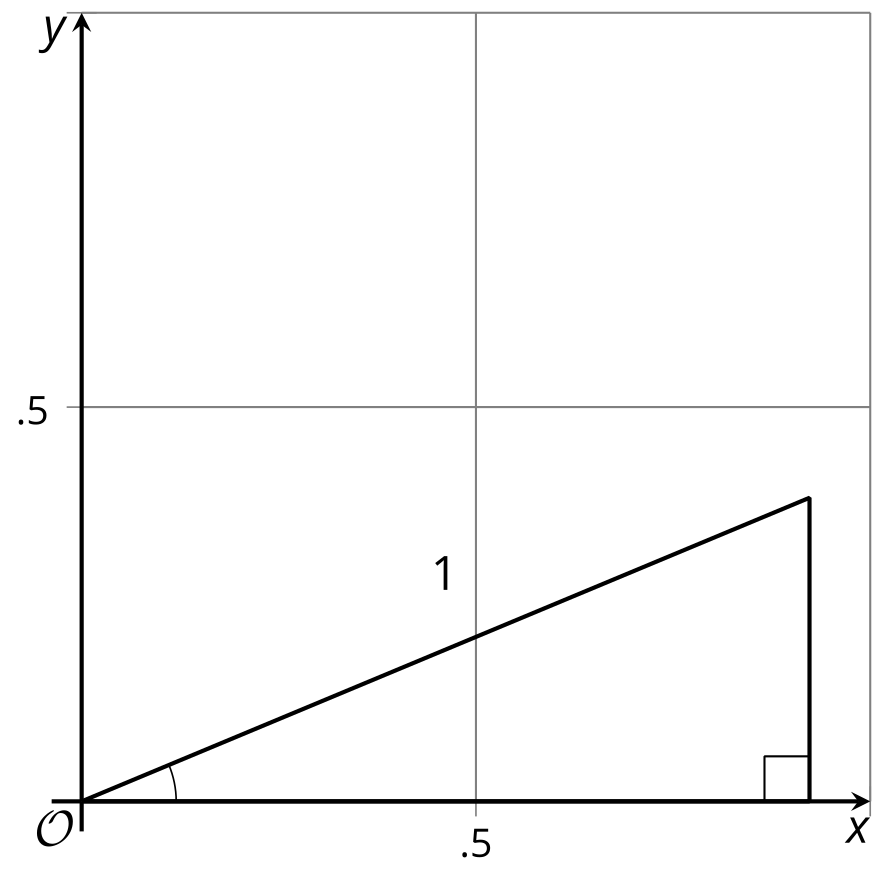
1. What are , , and ? Explain how you know.

* 

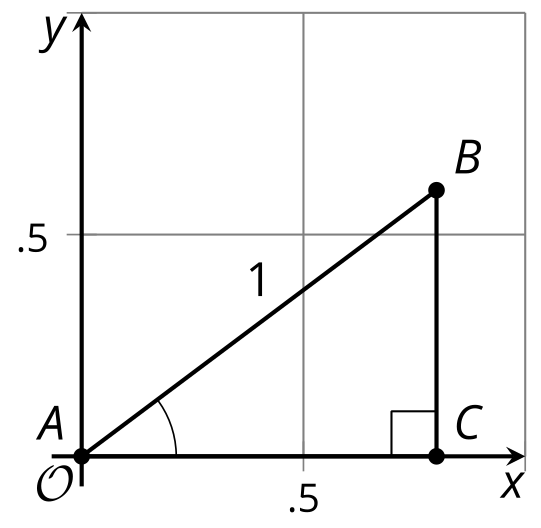
1. Here is a triangle similar to triangle .

* 
  1. What is the scale factor from to ? Explain how you know.
  2. What are , , and ?

1. Here is another triangle similar to triangle .

* 
  1. Label the triangle .
  2. What is the scale factor from triangle to triangle ?
  3. What are the coordinates of ? Explain how you know.
  4. What are , , and ?

#### Images for Activity Synthesis





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