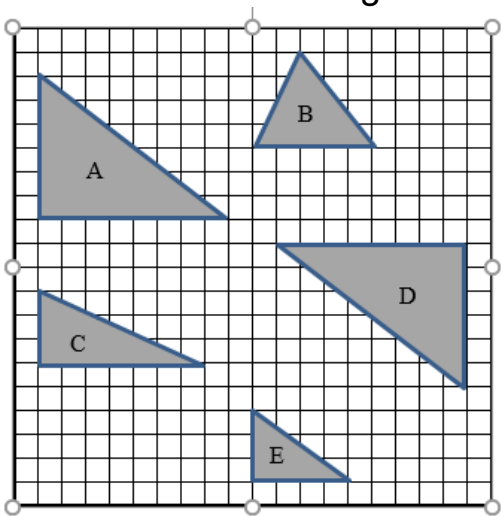
Stretching & Shrinking Investigation 4 Review

Name: _____ Date: _____ Period: _____

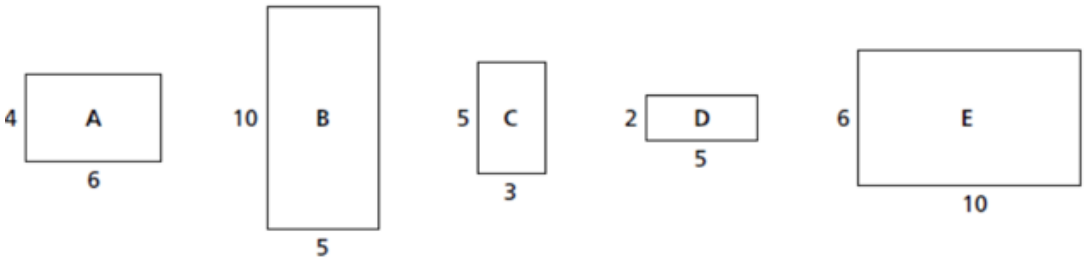
1. Which of the following triangles are similar? Write the ratio of two adjacent sides for each triangle.



	Ratio	Decimal	Similar?
A			
B			
C			
D			
E			

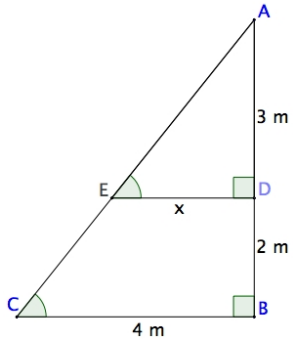
Explain how you know which triangles are similar.

2. Which of the following rectangles are **similar**? (Use ratios)

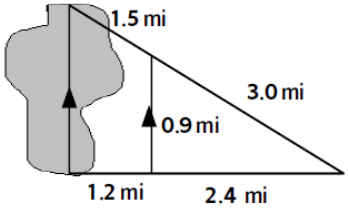


Do you need to consider the angles of each rectangle in question 2 to help determine which figures are similar? Why or why not?

3. Show your work to find the length of *x*.



4. Use similar triangles to find the length of the lake.



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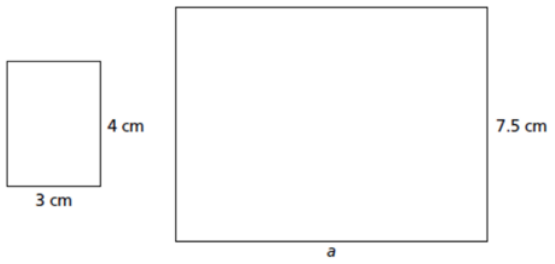
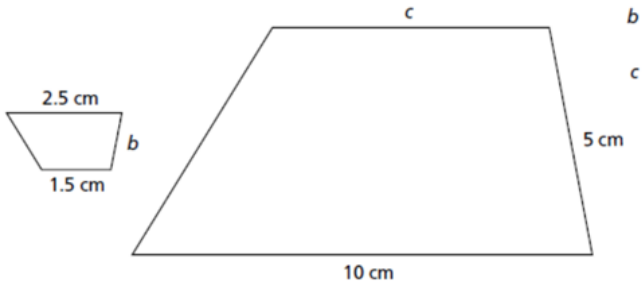
5. Below are several pairs of similar figures. In each, find the missing measurements(s).

a.



$a =$

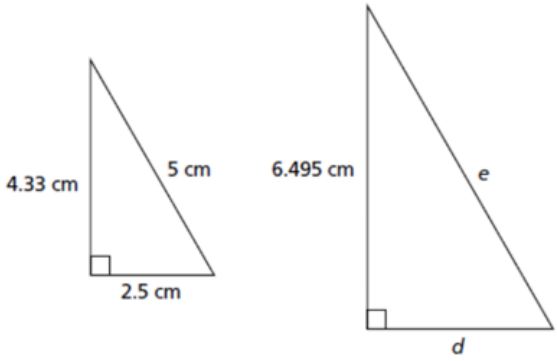
b.



$b =$

$c =$

c.



$d =$

$e =$

6. A tower casts a shadow of 64 ft. A 6-foot tall pole near the tower casts a shadow 8 ft. long. How tall is the tower? **DRAW** a picture.

7. A flagpole casts a shadow 3 meters long. A woman near the pole casts a shadow 0.75 meters long. The woman is 1.5 meters tall. How tall is the flagpole? **DRAW** a picture.