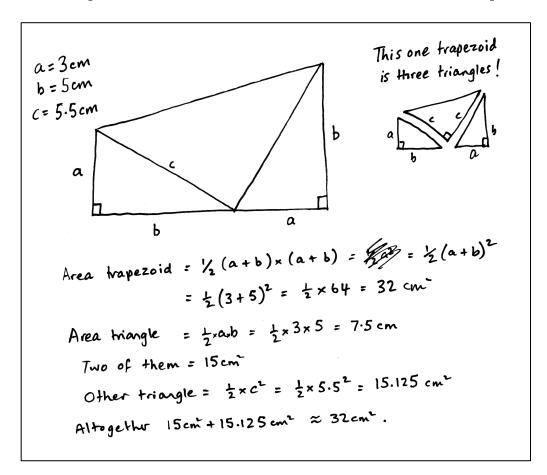
## Sample Methods to Discuss: Penelope

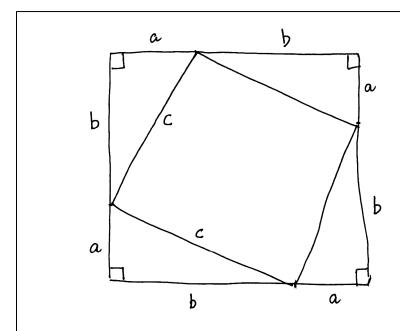


2.	Is Penelope's reasoning convincing? Explain your answer.
3.	Explain how Penelope could improve her proof.
<b></b> ·	

What connects Penelope's diagram to the Pythagorean Theorem?

1.

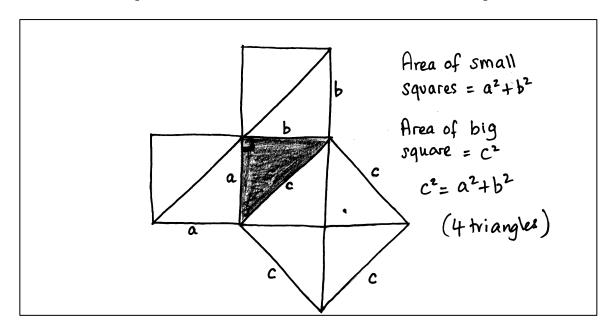
## **Sample Methods to Discuss: Nadia**



Area of middle square =  $c^2$ Area of four triangles =  $\frac{1}{2} \times a \times b \times 4 = 2 \times a \times b$ . Total area =  $(a + b)^2 = a^2 + b^2$ 

	Describe the method Nadia used in her proof.
2.	Is Nadia's reasoning convincing? Explain your answer.
3.	Explain how Nadia could improve her proof.

## **Sample Methods to Discuss: Sophie**



1. What type of triangle does Sophie use in her proof?	
2. Is Sophie's reasoning convincing? Explain your answer.	
3. Explain how Sophie could improve her proof.	

## **Comparing the Sample Methods**

1. Compare the work written by Penelope, Nadia, and Sophie.
Whose solution method do you find most convincing? Why?
2. Produce a complete and correct proof using your preferred method.
Your teacher has grid paper if you want to use it.