PYTHAGOREAN THEOREM
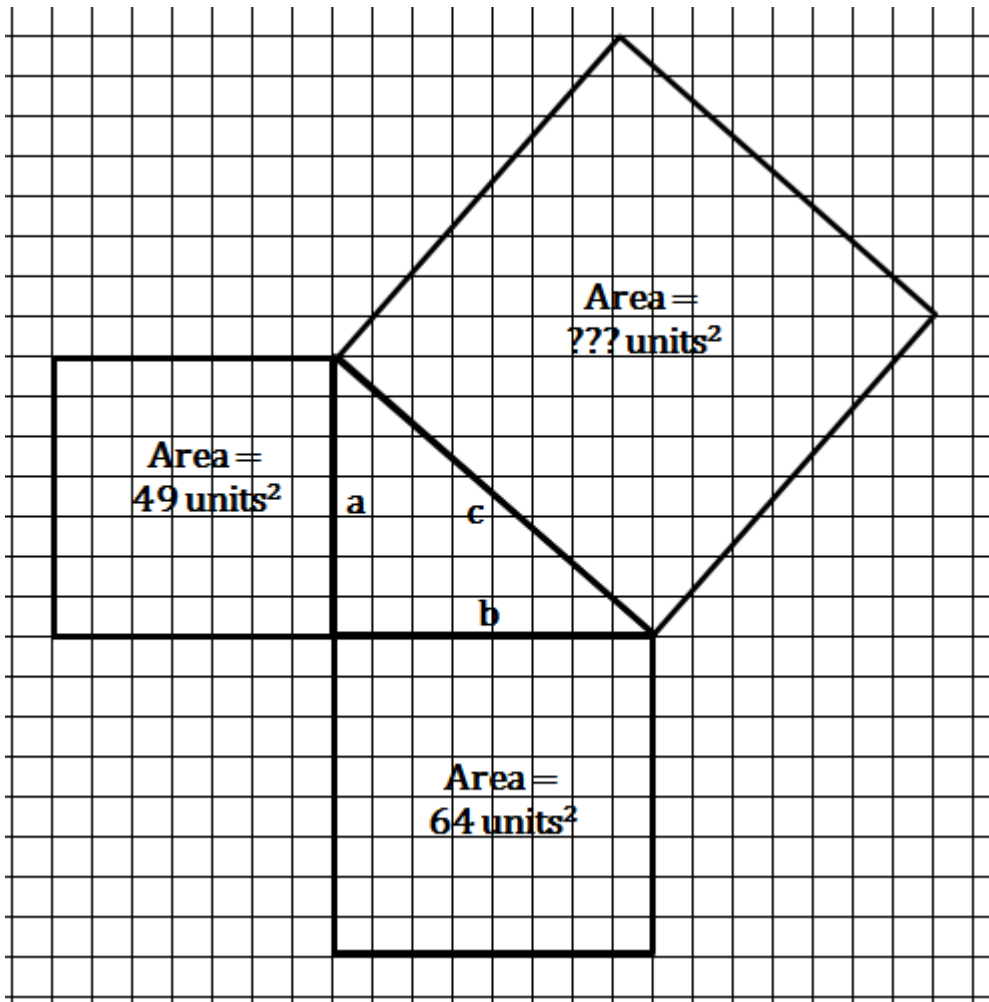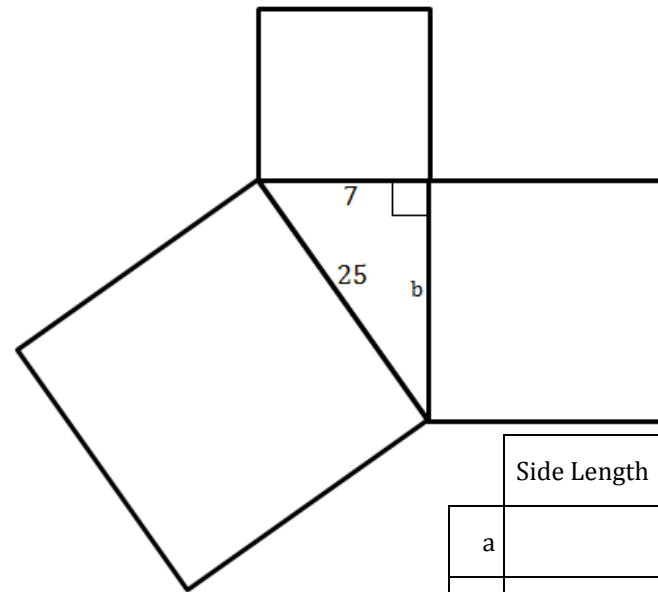
Area =
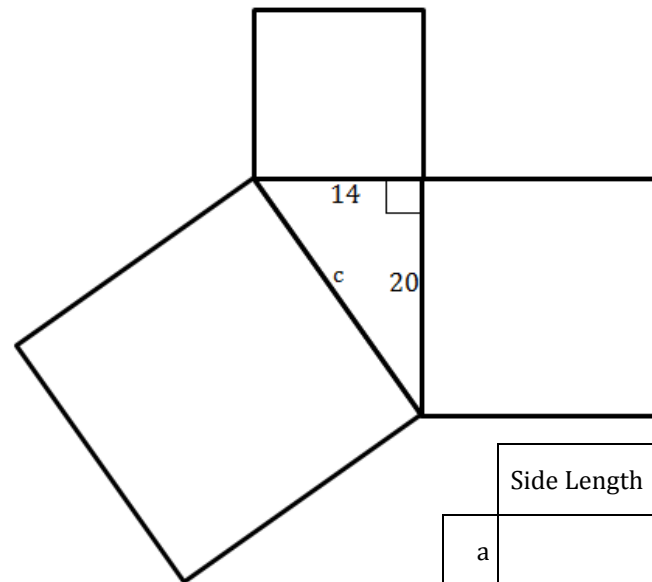??? units²

Area =
49 units²

a   c

b

Area =
64 units²

Given what you know about right triangles, what is the area of the largest square shown above?

How do you know?

7

25   b

	Side Length	Area of Square
a		
b		
c		

14

c   20

	Side Length	Area of Square
a		
b		
c		

Diagram 1 (top left):

Area = 36 units²

a

c   b

Area = 81 units²

	Side Length	Area of Square
a		
b		
c		

Diagram 2 (bottom left):

a

c   b   Area = 25 units²

Area = 169 units²

	Side Length	Area of Square
a		
b		
c		

Diagram 3 (top right):

6

c   b   Area = 64 units²

	Side Length	Area of Square
a		
b		
c		

Diagram 4 (bottom right):

Area = 64 units²

a

17   b

	Side Length	Area of Square
a		
b		
c		

3

4

Not Drawn to Scale

10

c   15

	Side Length	Area of Square
a		
b		
c		

11

19   b

	Side Length	Area of Square
a		
b		
c		

5
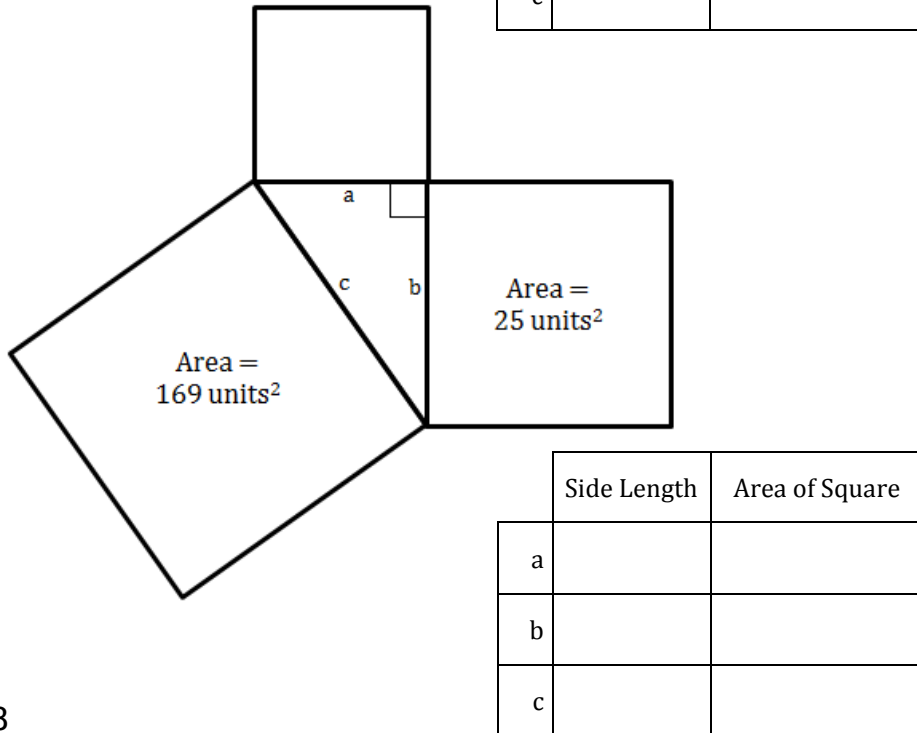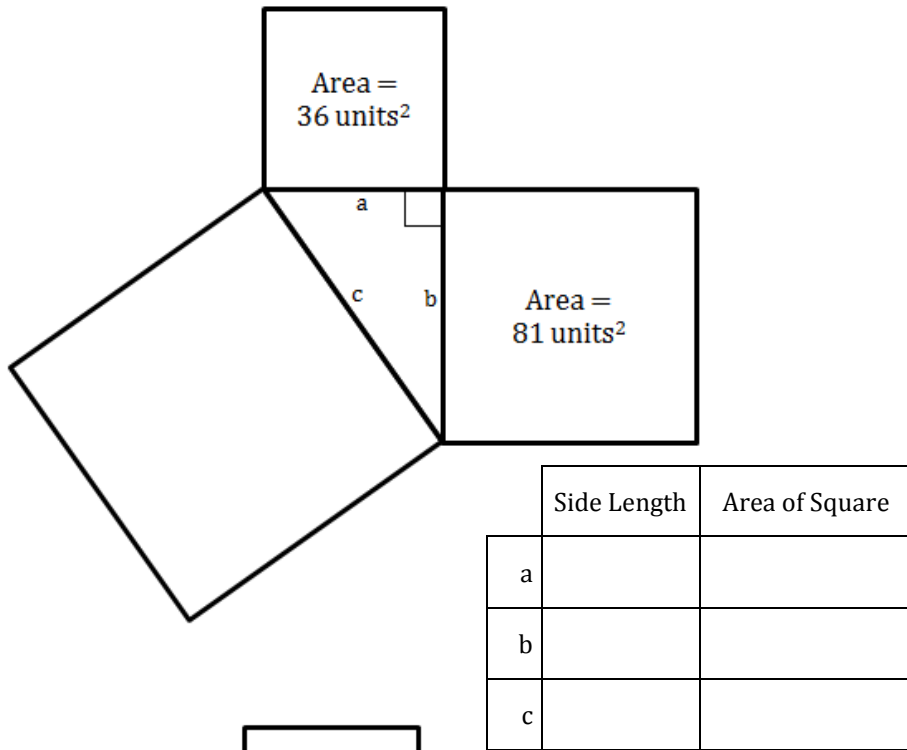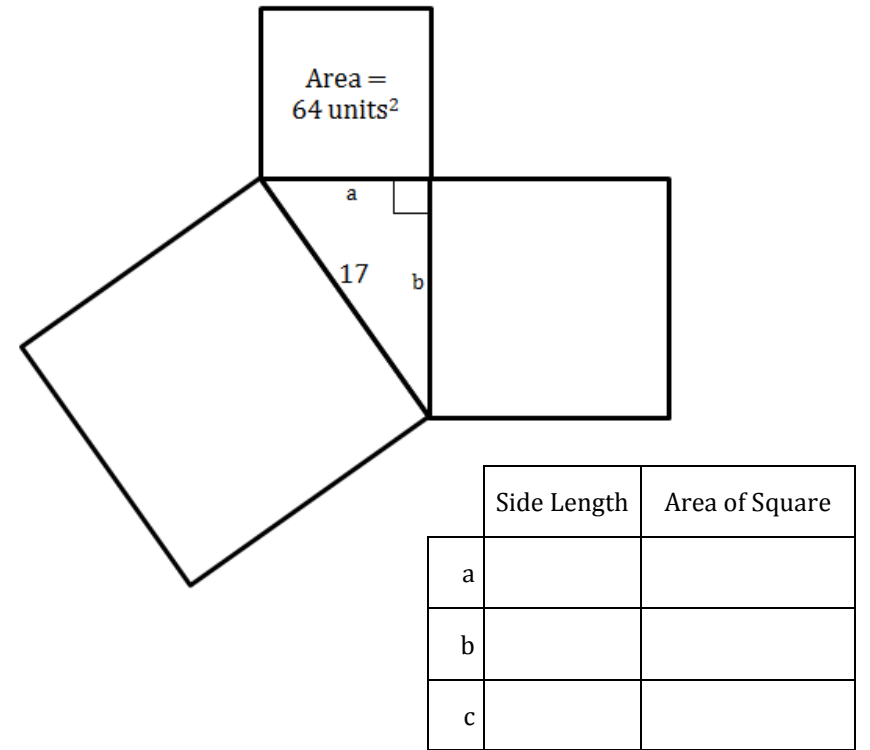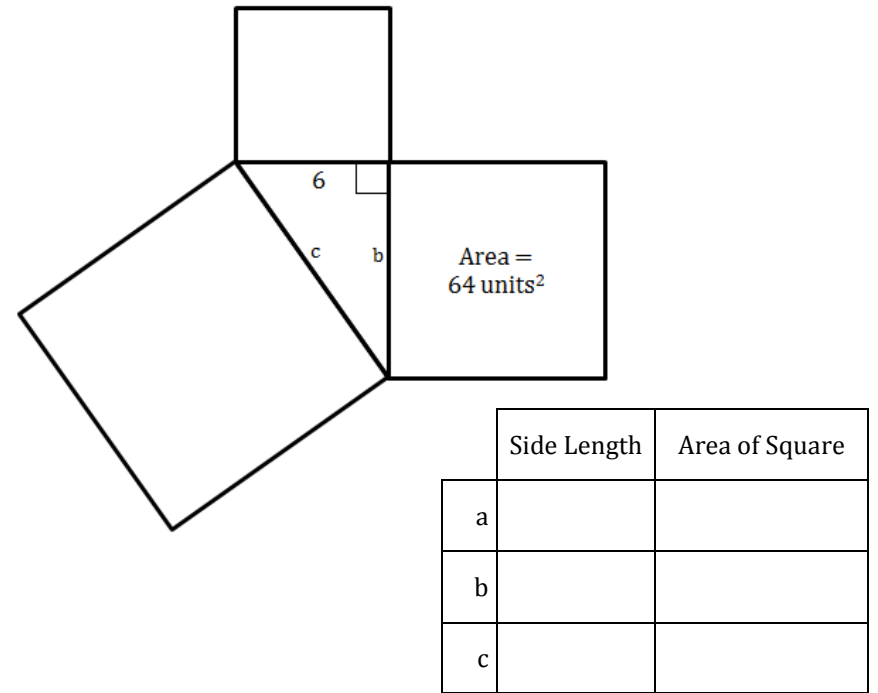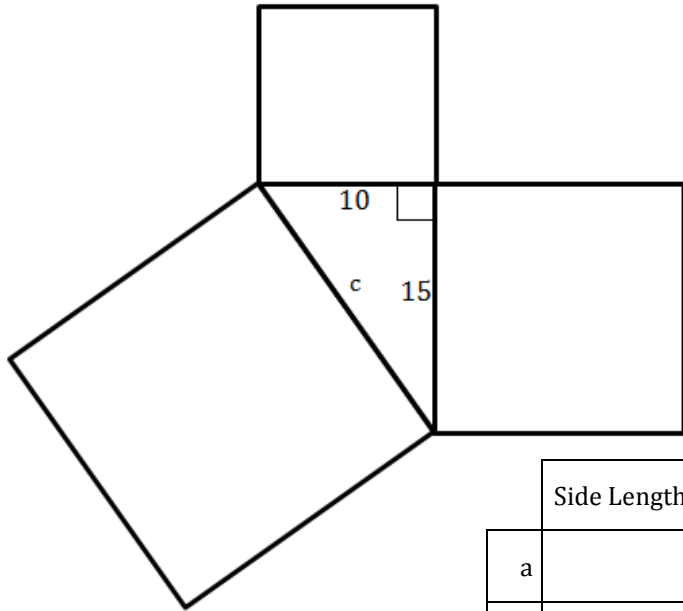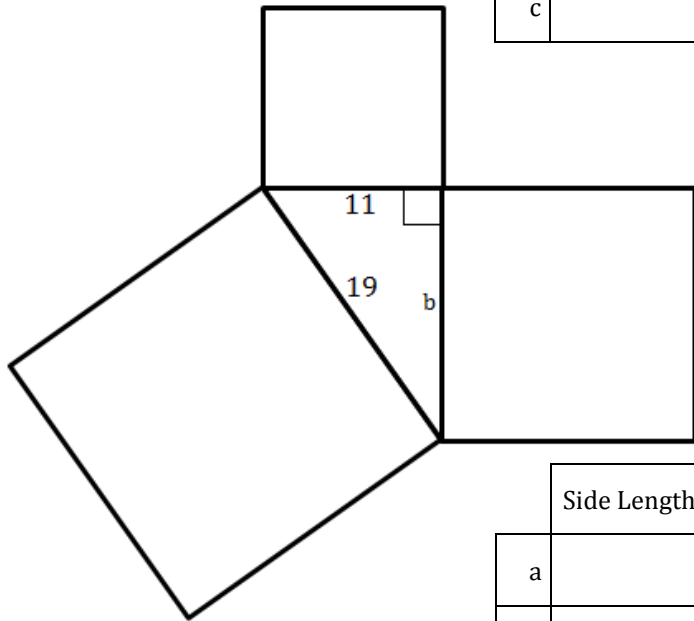
What are the areas of the two smaller squares?

What is the area of the largest square?

What are the side lengths of all three sides of the right triangle?

2