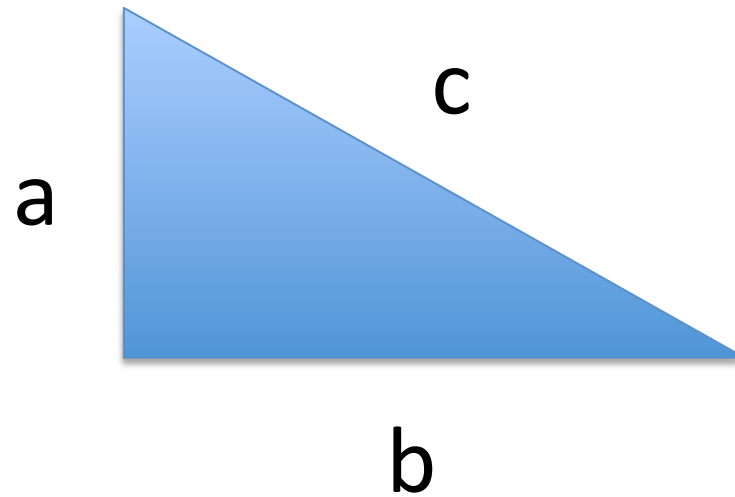




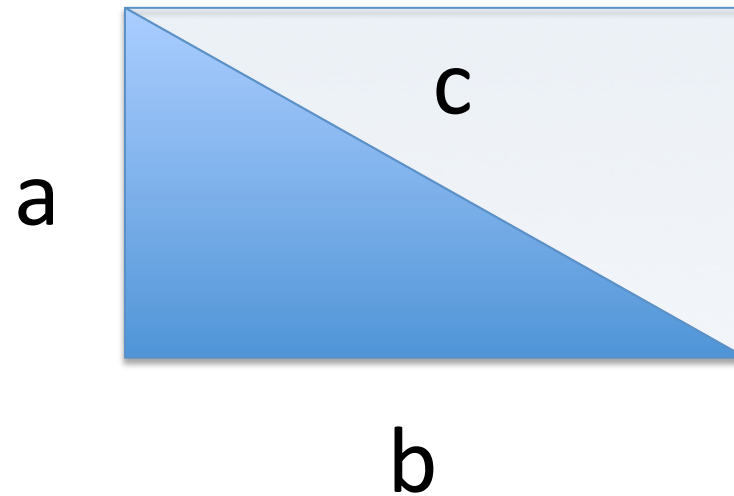
# Proving Pythagoras' Theorem

and that ancient Greeks  
were pretty good  
at mathematics

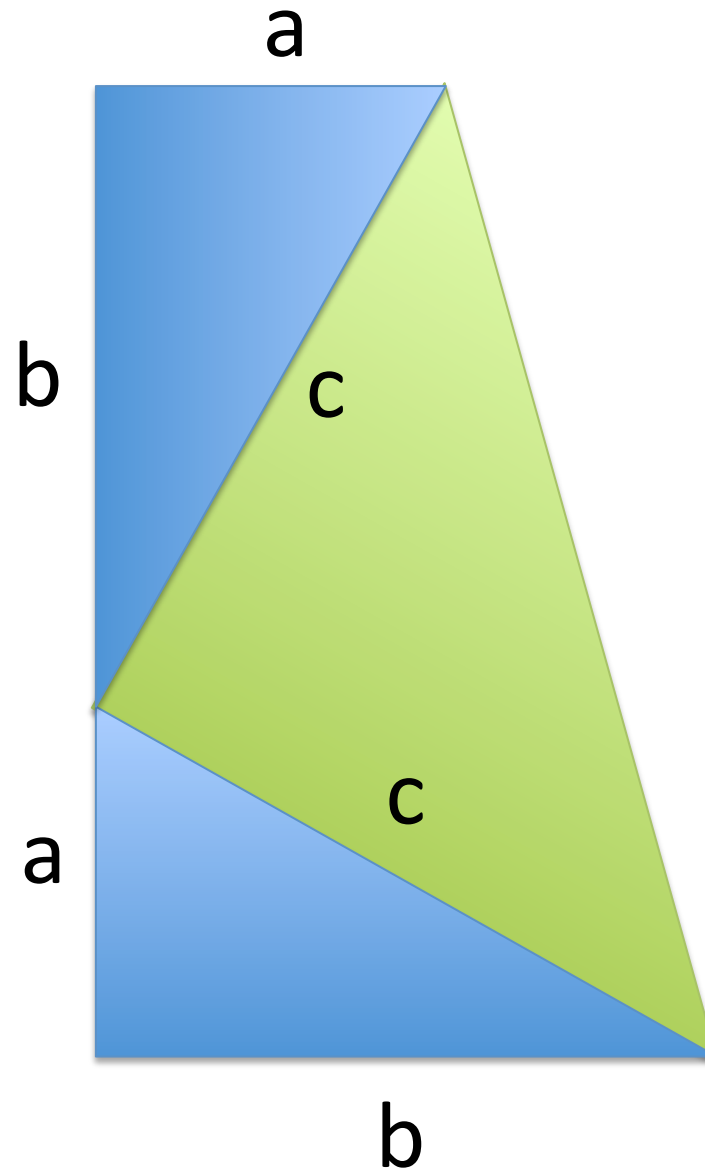
We start with a triangle of a particular type.



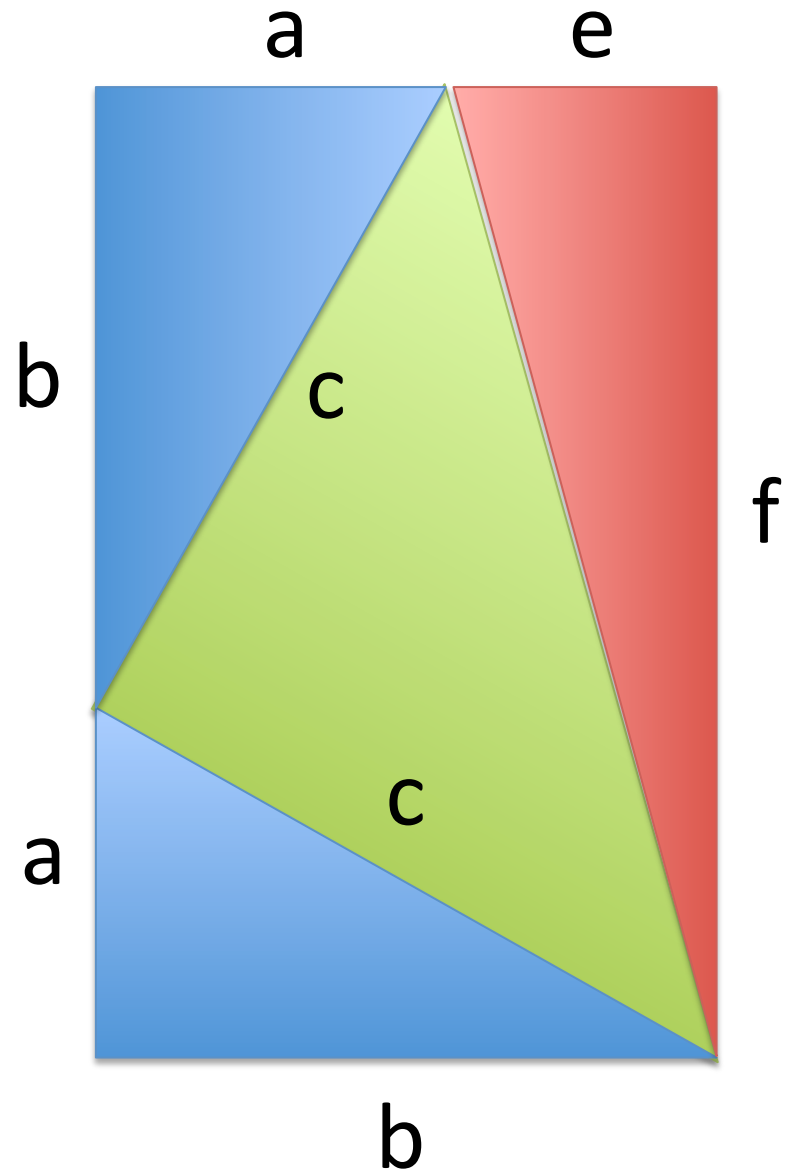
What is the area of this rectangle?



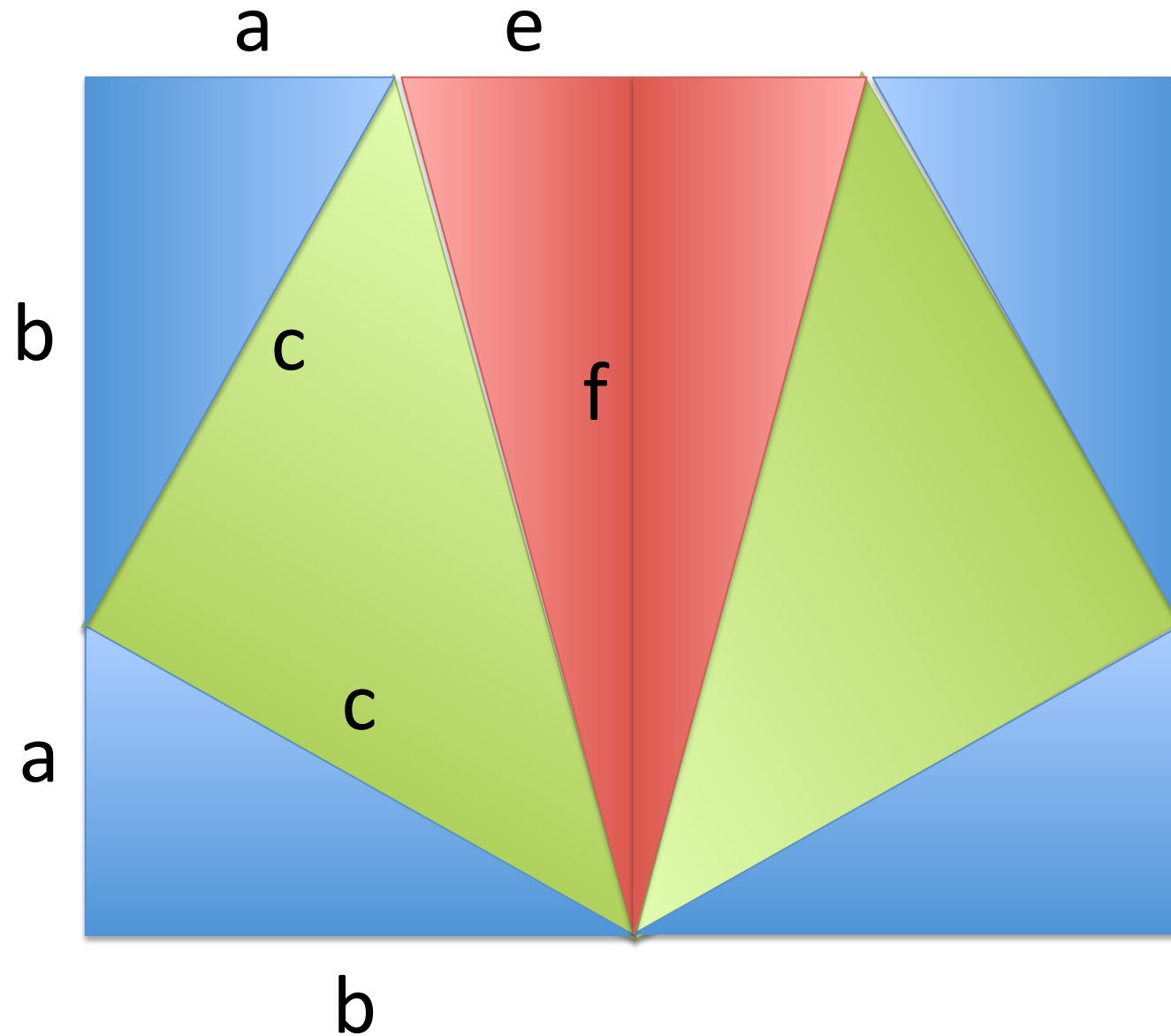
Split that rectangle so that we can have two of the original triangles and a new right angled triangle

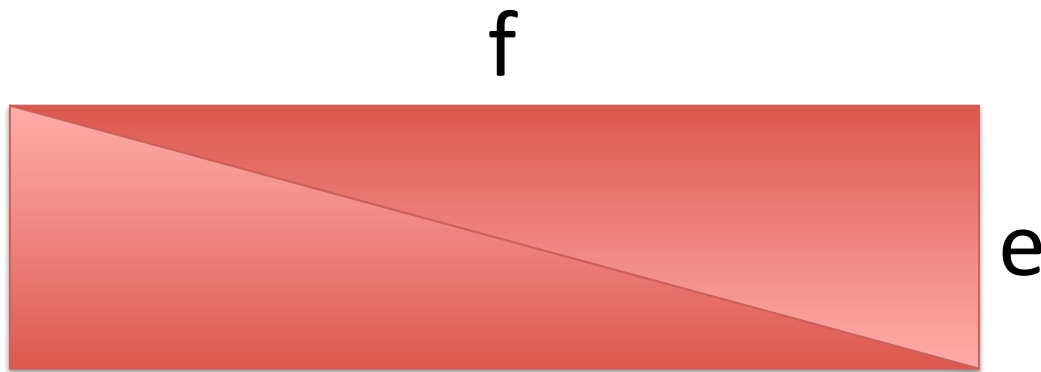
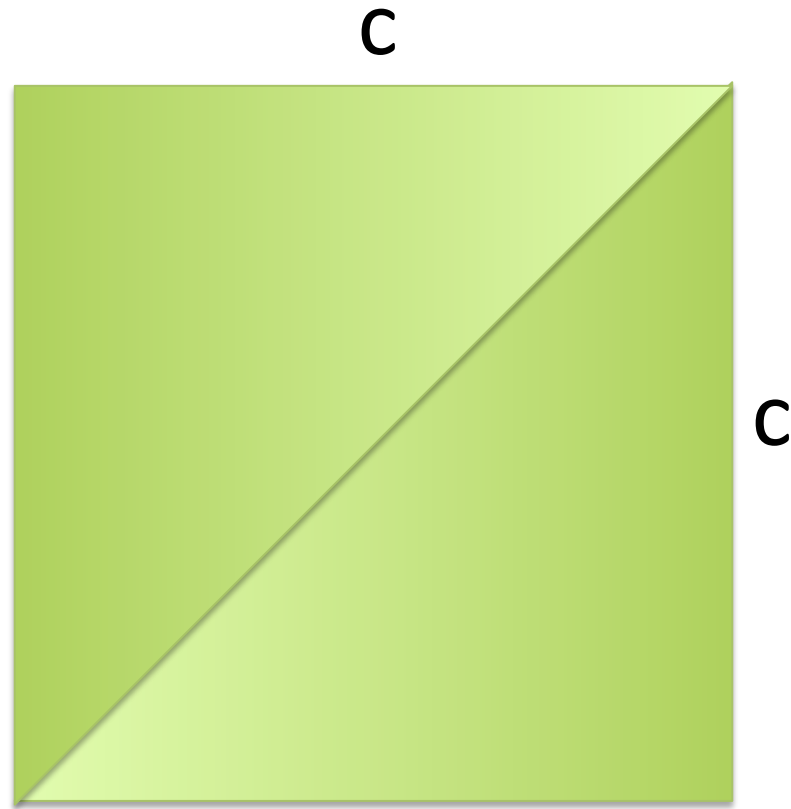
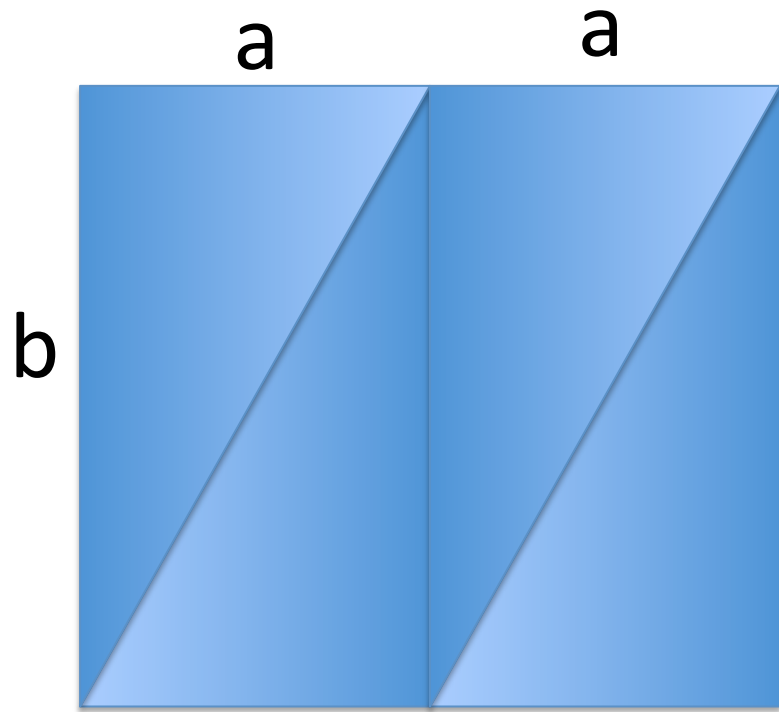


Fill in the gap with another right angled triangle to make another rectangle.



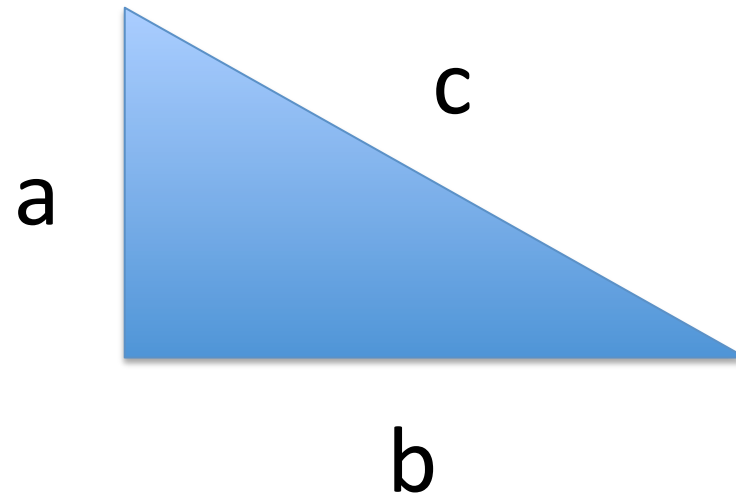
Mirror one rectangle to make a larger one





Can you work out the area of each set of shapes?

# Pythagoras' Theorem



$$a^2 + b^2 = c^2$$