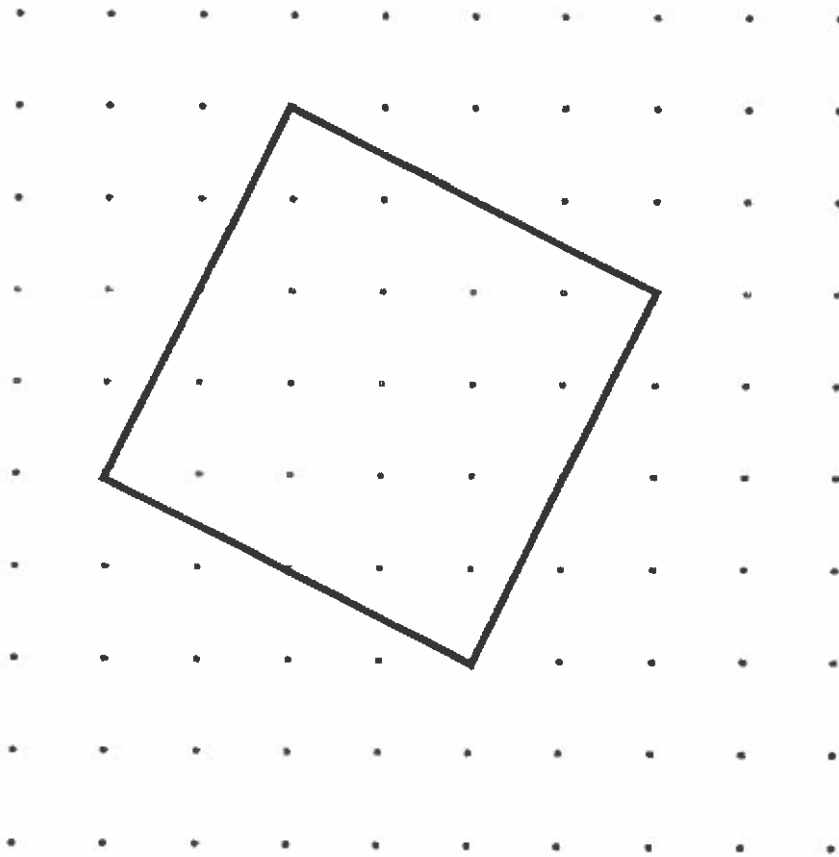


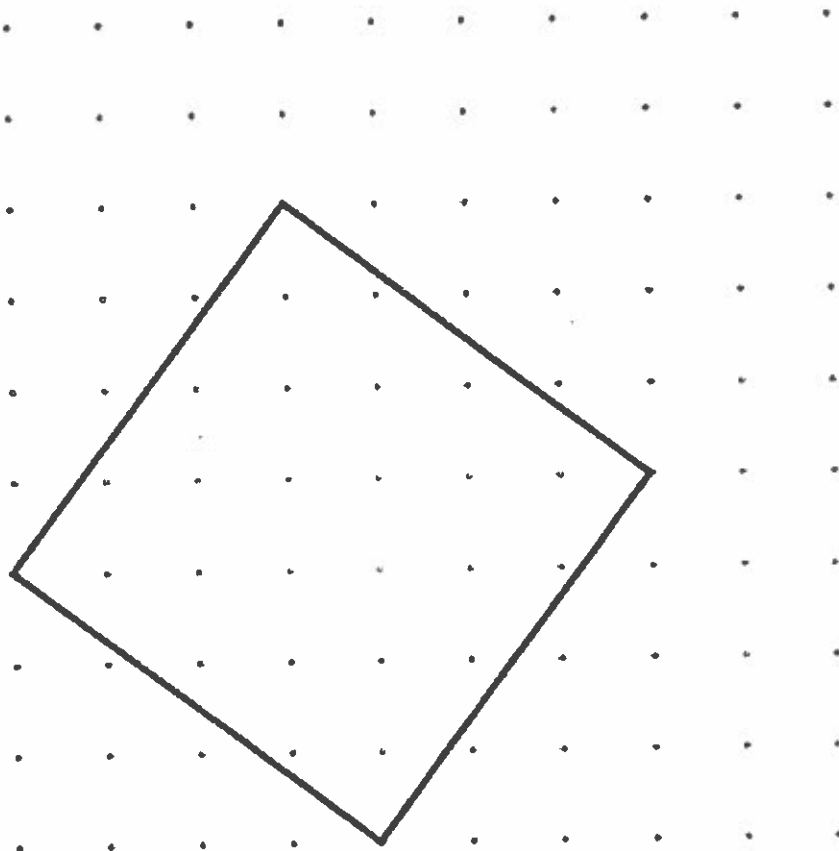
SE TASK: Pythagoras Plus



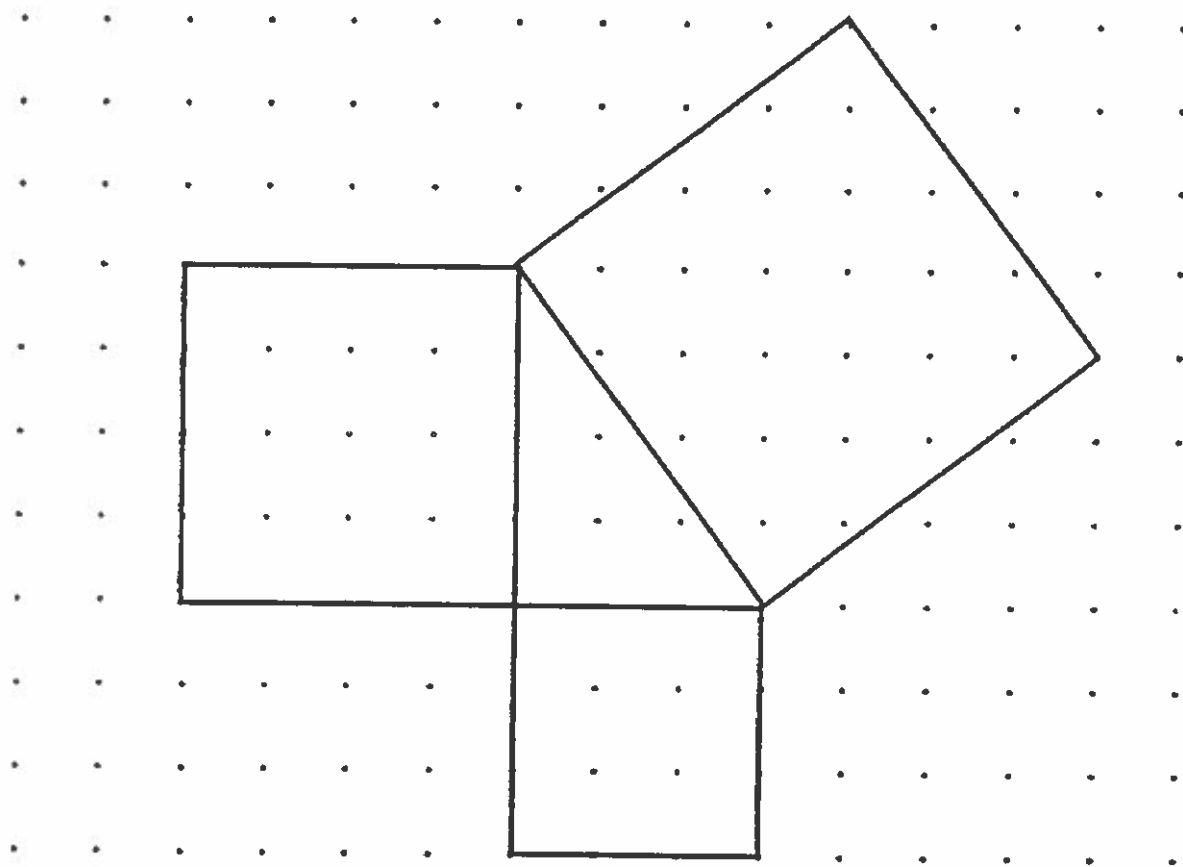
1. Find the exact area (in square units) of the figure below. Explain your method(s).



2. Find the exact area (in square units) of the figure below. Explain your method(s).



3. Find the areas of the squares on the sides of the triangle below.
(Hint: How does the large square below compare to the square in problem 1 above?)



Georgia Department of Education
Common Core Georgia Performance Standards Framework Student Edition
Eighth Grade Mathematics • Unit 3

- a. How do the areas of the smaller squares compare to the area of the larger square?
- b. If the lengths of the shorter sides of the triangle are a units and b units and the length of the longest side is c units, write an algebraic equation that describes the relationship of the areas of the squares.
- c. This relationship is called the Pythagorean Theorem. Interpret this algebraic statement in terms of the geometry involved.