Area on the Geoboard

4) Explain in your own words how the methods in 2 and 3 relate to the usual formula to compute the area of a rectangle: Area = length x width.

Construct a different rectangle. Find the total number of squares by counting, using rows, using columns, and by using a the formula length x width.



Activity 3. The area of a right triangle

A right triangle is one that has a right angle (90°). Construct a right triangle on the geoboard that has its base parallel to the border, with a base of four units and a height of four units.

1) Find the area of the triangle by counting the number of unit squares contained within.



Here is one way to count the squares.

Construct a right triangle with a base of five units and a height of five units. Verify that there are 10 whole squares, and five half squares for a total area of 12-1/2 unit squares.

For other triangles it may not be as easy to count parts of squares. We will use a different method to find the area of a right triangle.

2) Construct a right triangle with a base of six units and a height of four units.

