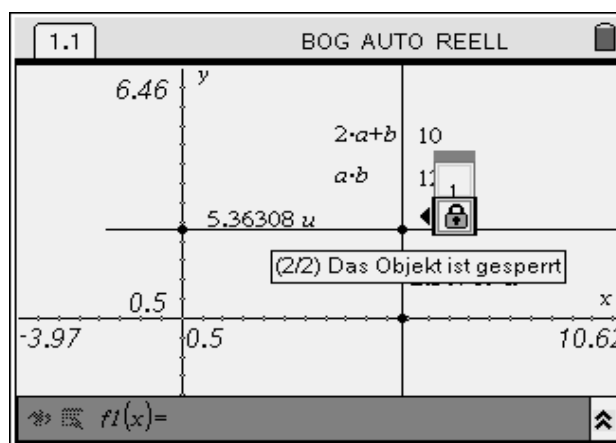


## Example 2: chicken fence

### Graphical solution – short version

The following way to solve the problem is based on the idea that the fence is constructed dynamically with a fixed length.

Construction: One corner of the area is represented by one point, which is one corner of the rectangle. The sides of the rectangle will be measured. Then the area and the perimeter can be determined. The length of the fence will be declared as a locked object and the maximum area can be established.



Helpful hints:

You want...	Application	How to do it with TI-Nspire™
To draw a point	<b>Graphs &amp; Geometry</b>	[ <b>menu</b> ], 6: Points & Lines, 1: Point]
To draw a perpendicular line	<b>Graphs &amp; Geometry</b>	[ <b>menu</b> ], 9: Constructions, 1: Perpendicular]
To establish intersection points	<b>Graphs &amp; Geometry</b>	[ <b>menu</b> ], 6: Points & Lines, 3: Intersection Point(s)], click on intersecting objects Point, Intersection points
To measure a length	<b>Graphs &amp; Geometry</b>	[ <b>menu</b> ], 7: Measurements, 1: Length], then click on points successively .
To insert a formula and calculate	<b>Graphs &amp; Geometry</b>	[ <b>menu</b> ], 1: Actions, 6: Text], insert the formula, then calculate [ <b>menu</b> ], 1: Actions, 8: Calculate] and choose variables successively. The corresponding result can be placed with .
To fix/lock the measure	<b>Graphs &amp; Geometry</b>	[ <b>menu</b> ], 1: Actions, 4: Attributes], place the cursor on the lock and lock it.