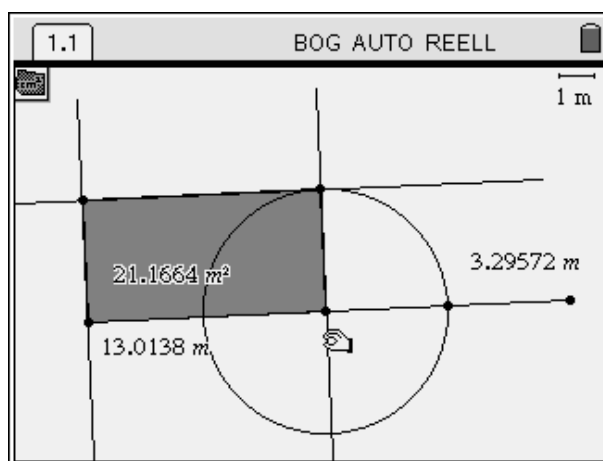


## Example 2: chicken fence


### Geometrical solution - short version






The following solution focuses on the idea that the fence can be constructed geometrically and the measurement of the resulting area can be taken.

Follow the construction: the total length of the fence is drawn as a line. Next a division of the line is necessary: the line is divided into three parts. With constructing the midpoint one can ensure the identical length of two parts of the line. These two parts represent the right and left boundary of the fence.



Helpful hints:

You want....	Application	How to do it with TI-Nspire™
To draw a line	<b>Graphs &amp; Geometry</b>	[ <b>menu</b> ], 6: Points & Lines, 5: Segment]
To draw a point on a line	<b>Graphs &amp; Geometry</b>	[ <b>menu</b> ], 6: Points & Lines, 2: Point on] <b>Point on object</b>
To draw a perpendicular line	<b>Graphs &amp; Geometry</b>	[ <b>menu</b> ], 9: Constructions, 1: Perpendicular]
To draw a polygon	<b>Graphs &amp; Geometry</b>	[ <b>menu</b> ], 8: Shapes, 4: Polygon]
To construct a midpoint	<b>Graphs &amp; Geometry</b>	[ <b>menu</b> ], 9: Constructions, 5: Mid Point]
To draw a circle	<b>Graphs &amp; Geometry</b>	[ <b>menu</b> ], 8: Shapes, 1: Circle]
To construct the intersection point	<b>Graphs &amp; Geometry</b>	[ <b>menu</b> ], 6: Points & Lines, 3: Intersection Point(s)], click on intersecting objects 

		Point , Intersection Points
To measure length and area	<b>Graphs &amp; Geometry</b>	[  , 7: Measurement, ...] then click on 1:Length and 2:Area   Measurement
To move a point	<b>Graphs &amp; Geometry</b>	[  , 1: Pointer], go to point with pointer and press  for one second
To cancel last step	<b>Graphs &amp; Geometry</b>	