TI-Nspire Activity: Pick's Theorem
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## Activity Overview

Students will place polygons on a grid and measure the area. Students will count border points and interior points and discover Pick's Theorem.

## Concepts

Students will translate data given in a table to an equation.

## Teacher Preparation

Students should have already studied area for an irregular shape.

## The Classroom.

Students will need to do this activity in small groups.
-Students will need the TI-Nspire document pick's theorem.tns. This document uses a Notes page and a Graphs and Geometry page.

## The Document

Students will count the border points and interior points of an irregular polygon and measure its area.
To measure the area, the measurement tool will be used.
(meni) (7):Measurement (2):Area
Students will change the polygon, keeping the vertices on grid points. Stress the importance of this to the students.

Students will enter this data in a chart on the student worksheet. Use the table developed, students will discover the equation that is Pick's Theorem.

