

NAME: _____

DATE: _____

Pick's Theorem Student Worksheet

Lesson Objectives:

- Discover Pick's Theorem regarding the area of a polygon on dot paper

Think finding the area of an irregular polygon is difficult? Not if it's on dot paper. Just ask Pick!

Steps:

1. Open the pick's theorem.tns file.
2. The first row of the table is filled out according to the drawn polygon. The number of border points is b and the number of interior points is i .
3. Change the shape of the polygon and enter its values in trial 2. Be sure the polygon's vertices are grid points.
4. Repeat this for 6 trials. You should see a pattern. This pattern is Pick's Theorem.

Dot paper polygons

Trial number	b	i	Measured area
1	20	60	69
2			
3			
4			
5			
6			
7			

Write what you think Pick's Theorem says below:
