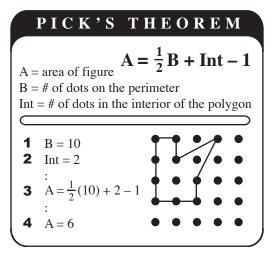
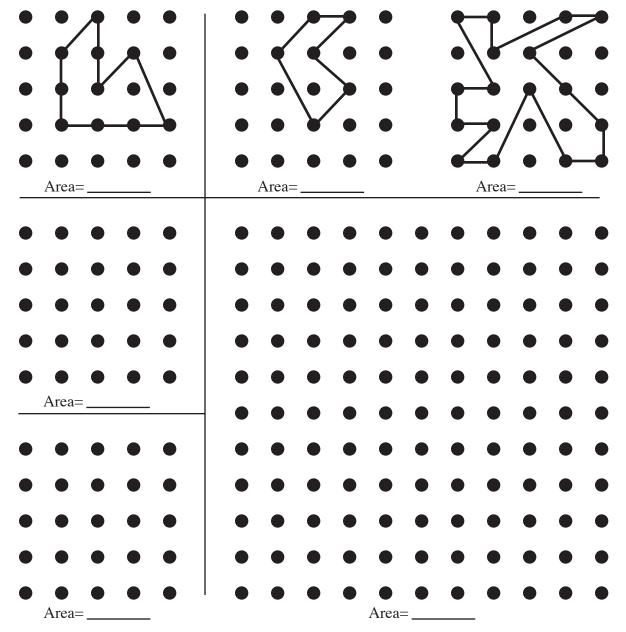
## MathFLIX CHALLENGE

In 1899, mathematician Georg Pick published an intriguing theorem for finding the area of irregular polygons. For any polygon with vertices on a grid, the area of the polygon can be found using the number of grid points on the boundary and the number of grid points inside the polygon.

On the grid below, use Pick's theorem to find the area of the shapes given as well as your own shapes. Color polygons with an area less than 6 red. Color ploygons with an area equal to 6 yellow. Color polygons with an area greater than 6 blue.

## Area of Irregular Polygons: Pick's Theorem





Mathflix.luc.edu • Loyola University Chicago in partnership with Chicago GEAR UP Alliance