

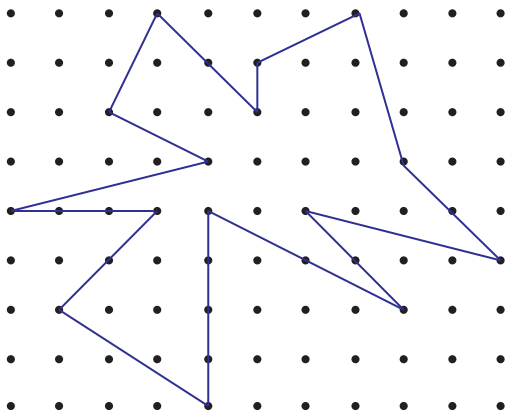
See if you can figure out a rule to calculate the area of polygons, (plane shapes with any number of sides), that have 2 inside posts but different numbers of boundary posts. You will need to draw several different polygons with 2 inside posts but different numbers of boundary posts and then calculate their areas. Show your calculations and reasoning.

Now, see if you can figure out a rule to calculate the area of polygons that have 3 inside posts but different numbers of boundary posts. Show your calculations and reasoning.

Finally, see if you can figure out a rule to calculate the area of polygons that have 4 inside posts but different numbers of boundary posts. Show your calculations and reasoning.

Look carefully at the rules you have found and see if you can figure out a rule to calculate the area of any plane shape that has any number of boundary posts and any number of inside posts. Show your reasoning.

Calculate the area of the shape below. Show your calculations.



Finish drawing the following polygon to make its area exactly 25 unit². Show your calculations and reasoning.

