

6A: Tangram Polygons







Names: _____

Use pattern blocks or [the app](#) to make each shape below. If you use the app, take a screenshot of your shapes and add them here. If you are using a physical record sheet from your teacher, you can just draw it/trace it. Pick a number 3, 4, 5, or 7 to make each shape and write that number on the record sheet. You will use this number of blocks to make each shape (one shape cannot be made with 5 blocks and one shape cannot be made with 7 blocks).



6A Tangram Polygons Record Sheet

We used exactly _____ pieces to build each shape. (Choose from 3, 4, 5, or 7.)

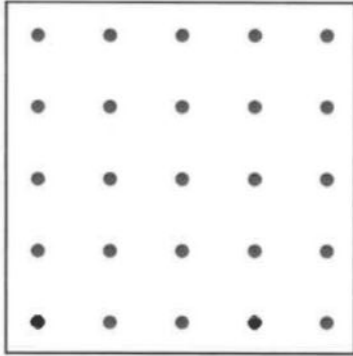
 square	 rectangle	 triangle
 trapezoid	 trapezoid	 parallelogram

6B: Geoboard Polygons

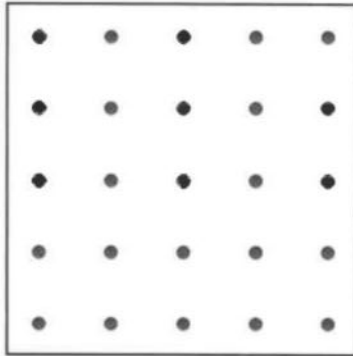
Names:

Get a geoboard and rubber bands or use [the app](#). Build a polygon that matches each description on your record sheet. Then draw them on the record sheet if you have one from your teacher. If you are using the app. Take a screenshot and add your pictures onto the record sheet here.

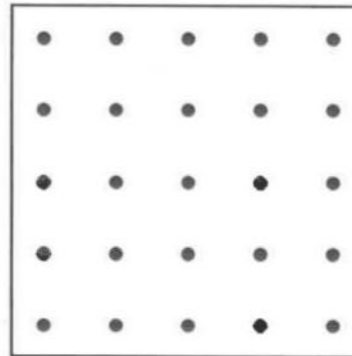
6B Geoboard Polygons Record Sheet page 1 of 3



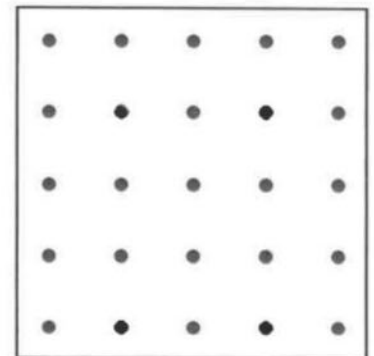
a 3-sided polygon with at least 1 acute angle



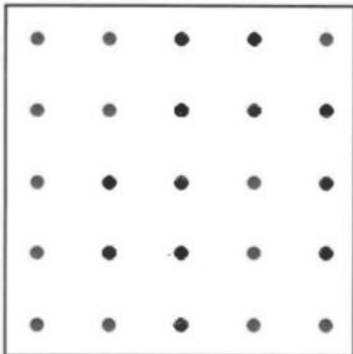
a quadrilateral with no parallel sides



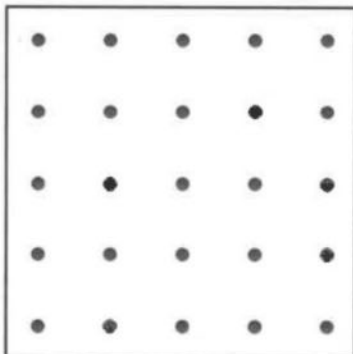
a rhombus that is not a square



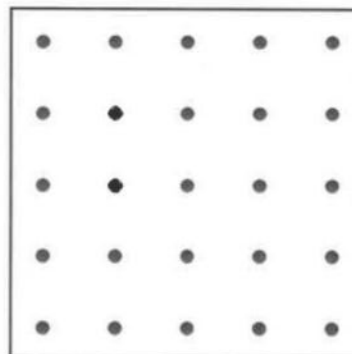
a quadrilateral with exactly 1 pair of parallel sides



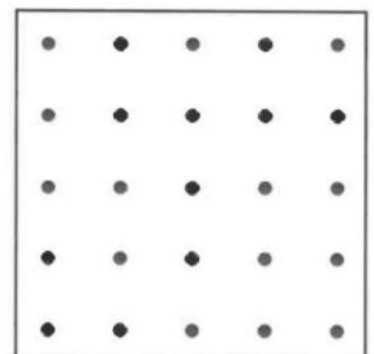
a pentagon with 1 right angle



a pentagon with no right angles



a hexagon with 3 pairs of parallel sides



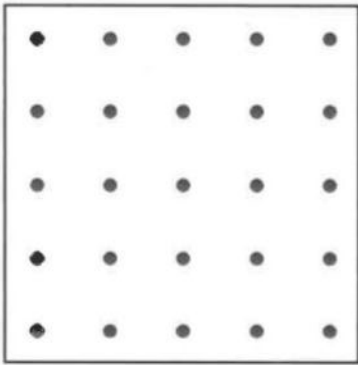
a hexagon with only 2 pairs of parallel sides

6B: Geoboard Polygons

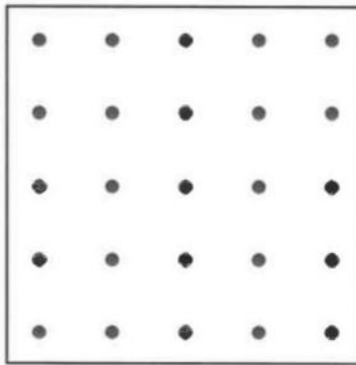
Names:

Get a geoboard and rubber bands or use [the app](#). Build a polygon that matches each description on your record sheet. Then draw them on the record sheet if you have one from your teacher. If you are using the app. Take a screenshot and add your pictures onto the record sheet here.

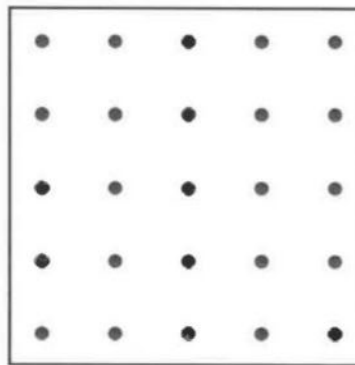
6B Geoboard Polygons Record Sheet page 2 of 3



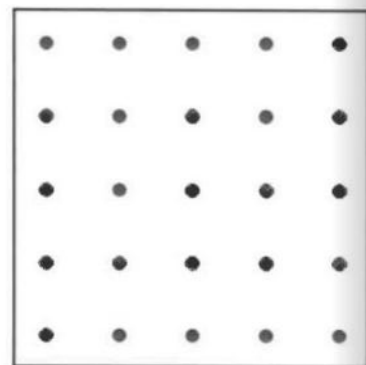
a quadrilateral with at least 1 right angle and all sides congruent



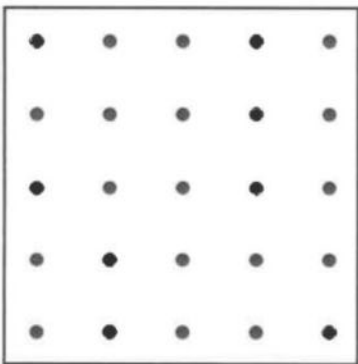
a quadrilateral with 2 pairs of parallel sides and no right angles



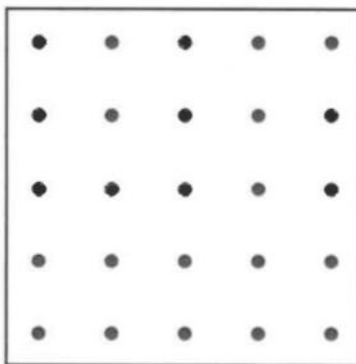
a pentagon with 2 parallel sides



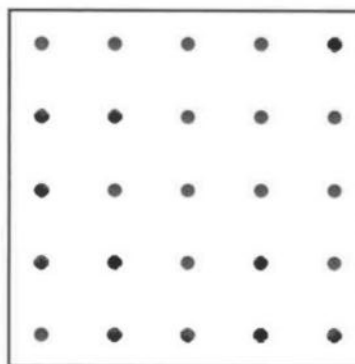
a pentagon with no parallel sides



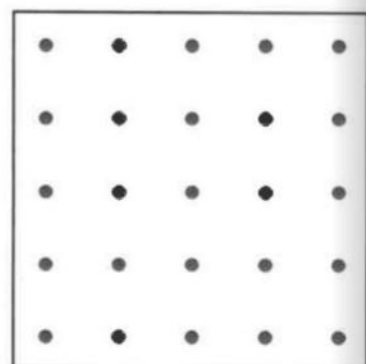
a trapezoid with 2 right angles



a trapezoid with no right angles



a 3-sided figure with 1 obtuse angle



a 7-sided polygon with 2 pairs of parallel sides

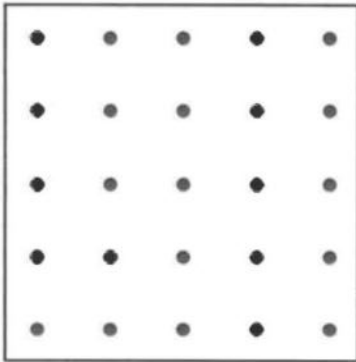
6B: Geoboard Polygons

Names:

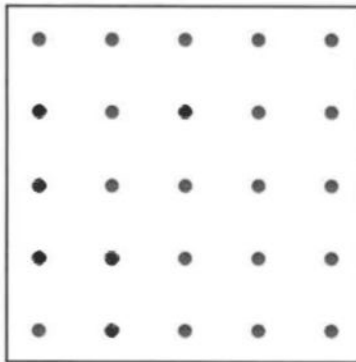
Get a geoboard and rubber bands or use [the app](#). Build a polygon that matches each description on your record sheet. Then draw them on the record sheet if you have one from your teacher. If you are using the app. Take a screenshot and add your pictures onto the record sheet here.

6B Geoboard Polygons Record Sheet page 3 of 3

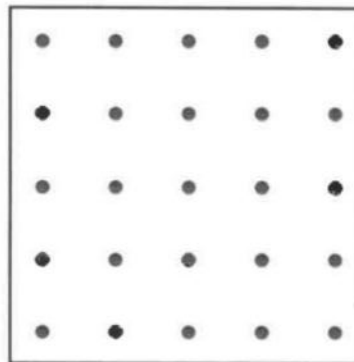
Challenge



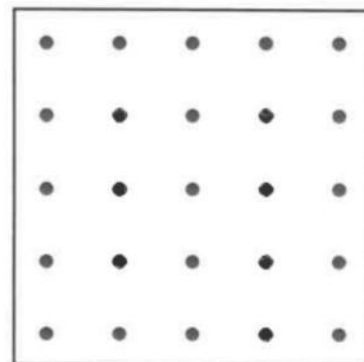
a quadrilateral with exactly 2 lines of symmetry



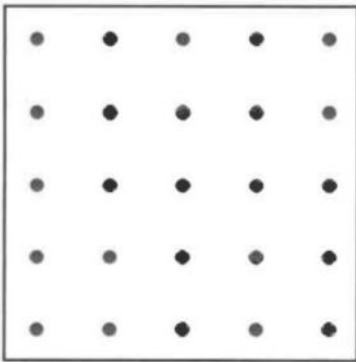
an octagon with line symmetry



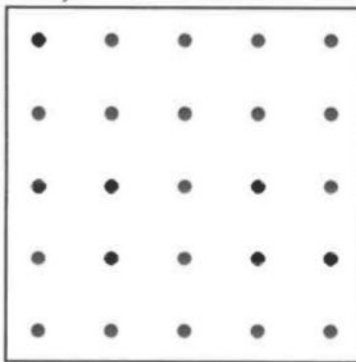
a decagon with no symmetry



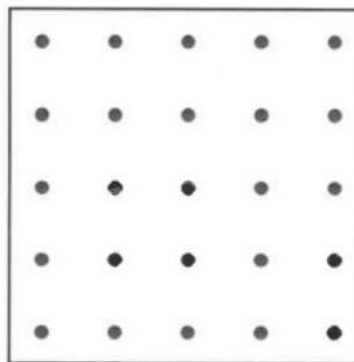
an undecagon



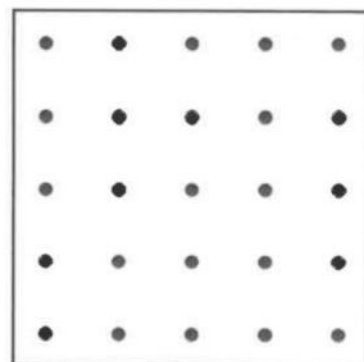
a dodecagon with symmetry



a dodecagon with no symmetry



a polygon with 18 sides



a polygon with 22 sides

6C: Guess My Quadrilateral

Names: _____

Choose a riddle book written by a classmate. Go one page/rule at a time and cross out any shapes that don't fit. The last shape left should be your answer. The record sheet is on the next slide.

Rectangle A



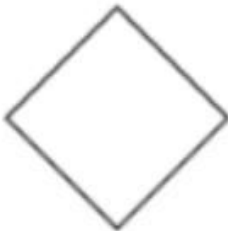
Trapezoid A



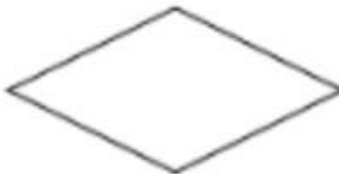
Quadrilateral A



Square A



Rhombus A



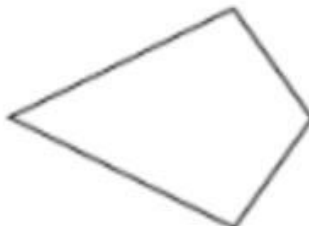
Parallelogram A



Trapezoid B



Quadrilateral B



Square B



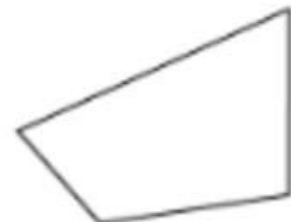
Parallelogram B



Quadrilateral C



Quadrilateral D



Rectangle B



Quadrilateral E



Square C



6C: Guess My Quadrilateral Record Sheet

Names: _____



6C Guess My Quadrilateral Record Sheet

Fill in the information for each riddle that you solve. There are extra rows in case you want to solve more than 5 riddles.

Riddle Author	Riddle Answer	Did you solve the riddle correctly?
1.		
2.		
3.		
4.		
5.		

1 Of these riddles, whose riddle was the hardest to solve? Why?

2 Whose riddle was the easiest? What made it so easy?

3 What advice do you have to improve any of the riddles?

