



Work Place Instructions 6B Geoboard Polygons

Each student works alone and needs:

- 6B Geoboard Polygons Record Sheet (1 of 3 pages)
- geoboard and bands
- ruler

- 1 Students choose one of the three pages of record sheets to work on, and record their name at the top of the page.
- 2 Students read the polygon descriptions and build at least one example of each kind of polygon on their geoboard.
- 3 Students copy their favorite example of each polygon on the record sheet, using a ruler to draw straight sides.

- 4 Students check to make sure their drawing matches the polygon built on the geoboard before going on to the next polygon.
- 5 Once students have completed a page, they can pair up with another student who has also finished and compare their polygons.
 - Do students agree that each other's polygons fit the descriptions given on the sheet?
 - If both students have built a polygon for the same descriptions, how are the polygons alike and different?

Game Variations

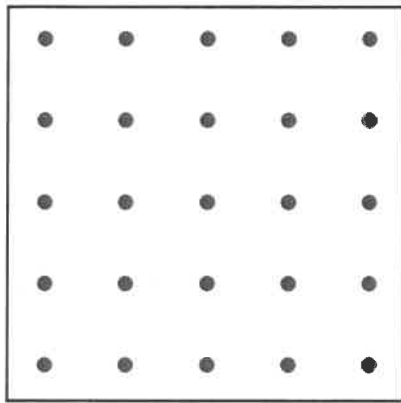
- A If some students have trouble building and describing their own polygons, invite them to build the polygons with a partner first and then describe them in collaboration.
- B Students who are ready to work at a more challenging level might enjoy working in pairs, coming up with descriptions first and then challenging their partners to build polygons that match those descriptions.

NAME _____

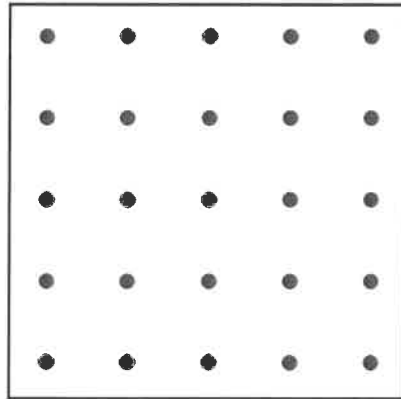
DATE _____



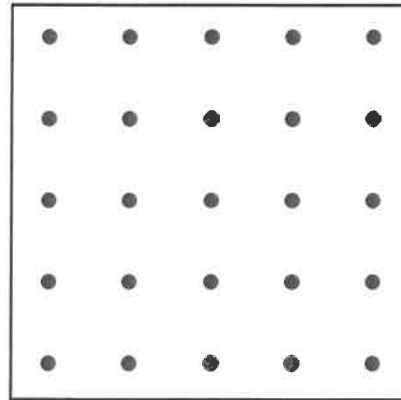
6B Geoboard Polygons Record Sheet page 1 of 3



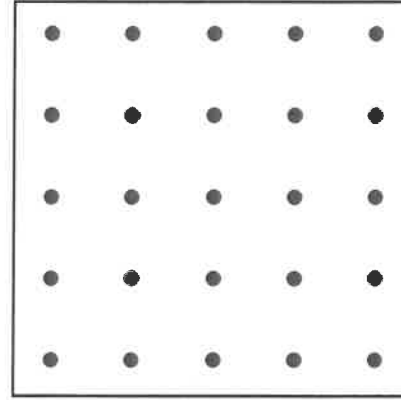
a 3-sided polygon with at least 1 acute angle



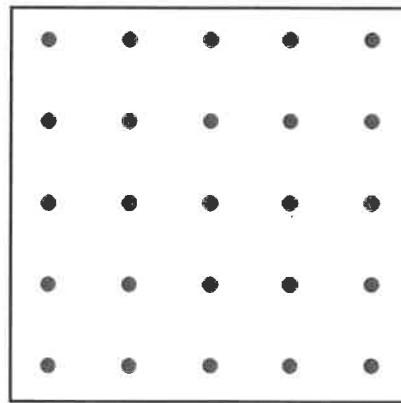
a quadrilateral with no parallel sides



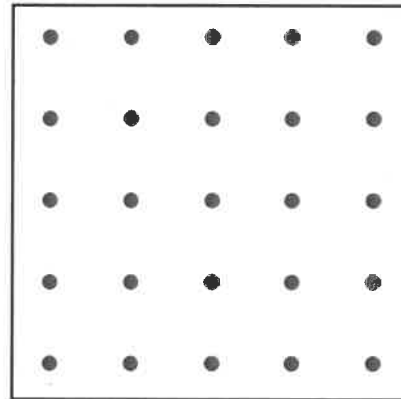
a rhombus that is not a square



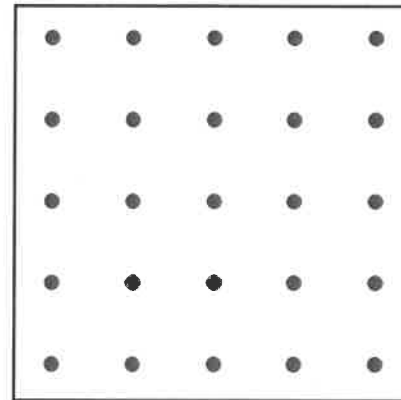
a quadrilateral with exactly 1 pair of parallel sides



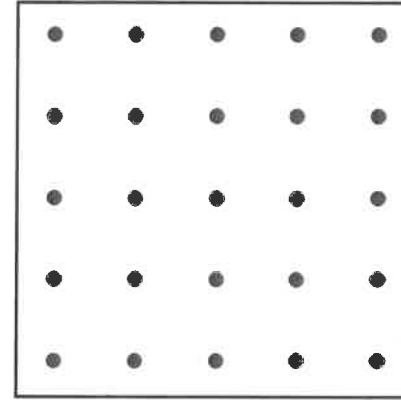
a pentagon with 1 right angle



a pentagon with no right angles



a hexagon with 3 pairs of parallel sides



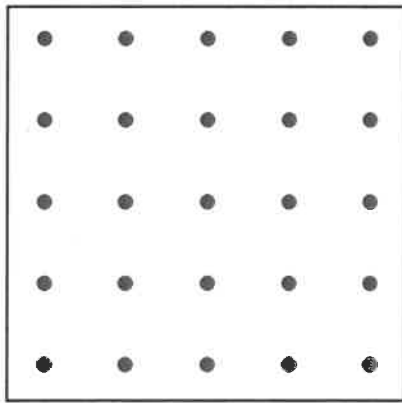
a hexagon with only 2 pairs of parallel sides

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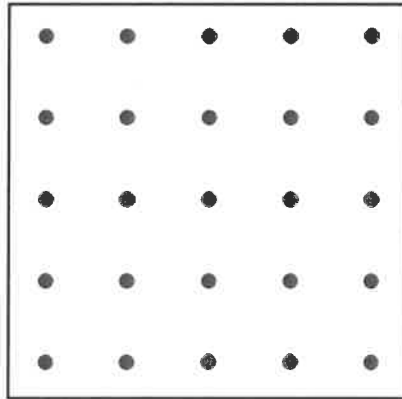
NAME _____

DATE _____

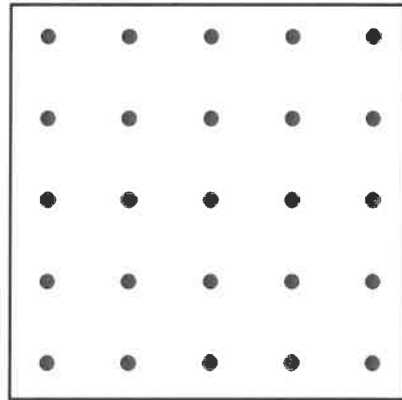
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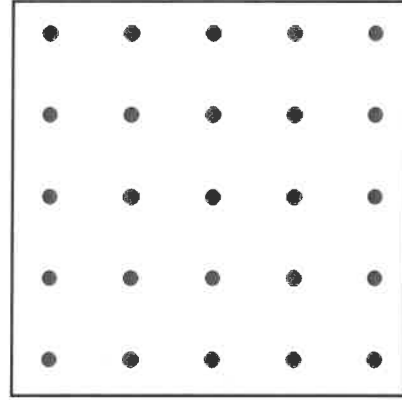
a quadrilateral with at least 1 right angle and all sides congruent



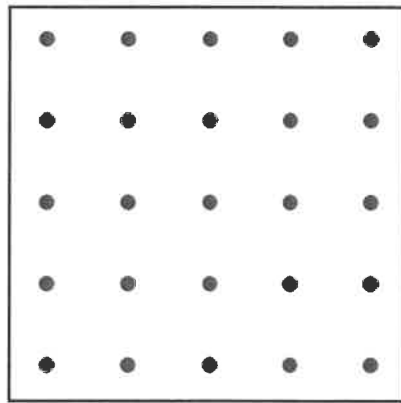
a quadrilateral with 2 pairs of parallel sides and no right angles



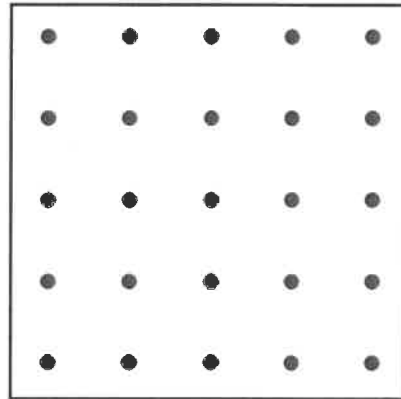
a pentagon with 2 parallel sides



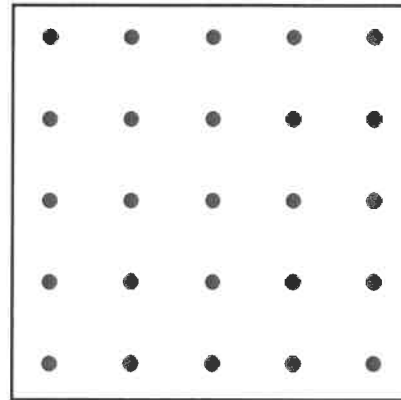
a pentagon with no parallel sides



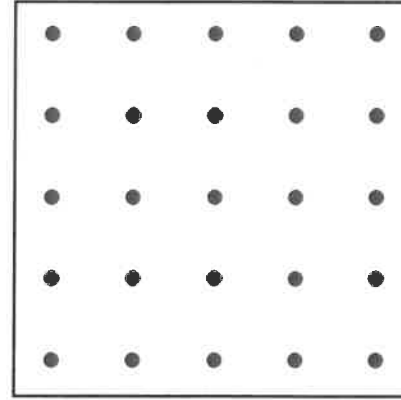
a trapezoid with 2 right angles



a trapezoid with no right angles



a 3-sided figure with 1 obtuse angle



a 7-sided polygon with 2 pairs of parallel sides

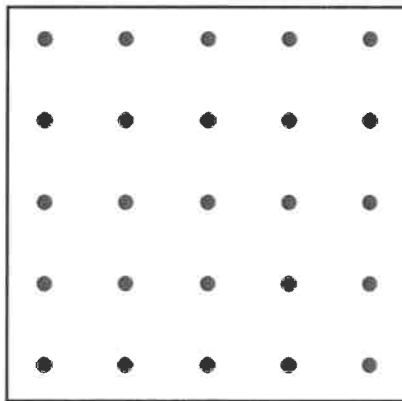
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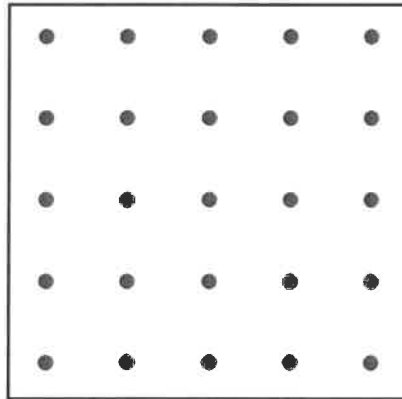
DATE _____

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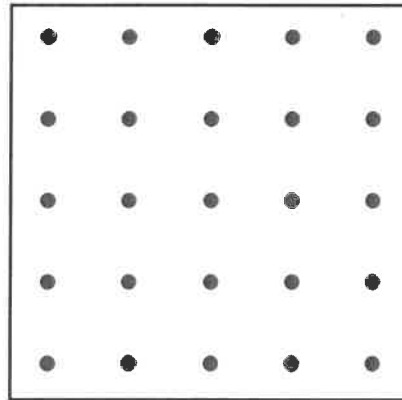
Challenge



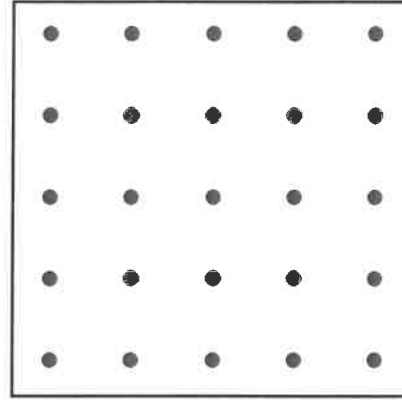
a quadrilateral with exactly 2 lines of symmetry



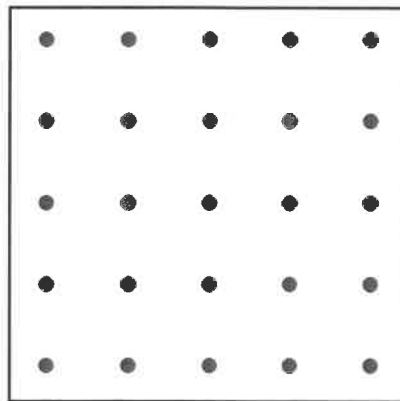
an octagon with line symmetry



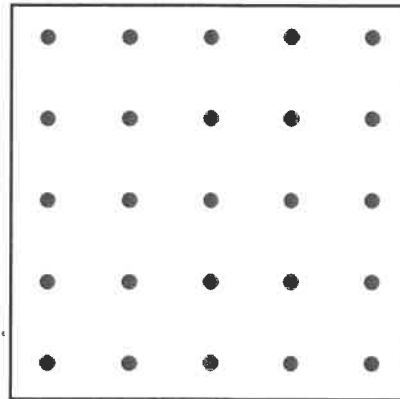
a decagon with no symmetry



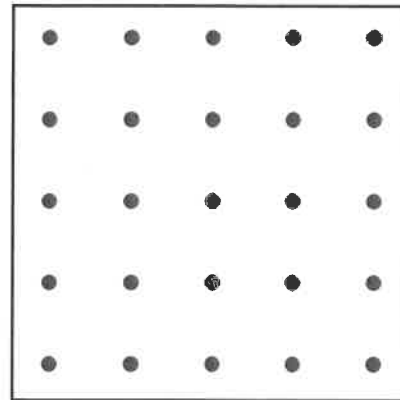
an undecagon



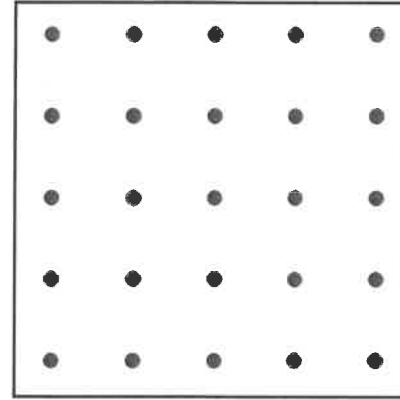
a dodecagon with symmetry



a dodecagon with no symmetry



a polygon with 18 sides



a polygon with 22 sides

This polygon has _____.

Our polygons are alike because _____.

Our polygons are different because _____.

This polygon has _____ /

but this polygon has _____

_____.

