

New Connections Questions

Mathematics for Elementary Teachers: An Activity Approach

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Activity Set 6.4

1. *Math Concepts:* Dot paper is available for downloaded from the Online Learning Center
 - a. Use dot paper and create a fun shape that would fit on a 5 by 5 geoboard. Assuming the length between two pegs is 1 unit; use only line segments with rational lengths.
 - b. Determine the area of the shape you created in part a. Show your work clearly on the dot paper.
 - c. Use dot paper and create a fun shape that would fit on a 5 by 5 geoboard. Assuming the length between two pegs is 1 unit; use a mix of line segments with rational and irrational lengths. Use at least 3 irrational lengths.
 - d. Determine the area of the shape you created in part c. Show your work clearly on the dot paper.
 - e. Use dot paper and create a fun shape that would fit on a 5 by 5 geoboard. Assuming the length between two pegs is 1 unit; use only line segments with irrational lengths.
 - f. Determine the area of the shape you created in part e. Show your work clearly on the dot paper.