



Exploring Polygons

Lesson Synopsis:

In this lesson, students use data collection and patterns to generate formulas for various properties of regular polygons including interior angle measures and sums, exterior angle measures and sums, and perimeter and area. Students explore formulas associated with properties of regular polygons both geometrically and algebraically using various representations.

TEKS:

G.2	Geometric structure. The student analyzes geometric relationships in order to make and verify conjectures.
G.2B	Make conjectures about angles, lines, polygons, circles, and three-dimensional figures and determine the validity of the conjectures, choosing from a variety of approaches such as coordinate, transformational, or axiomatic.
G.5	Geometric patterns. The student uses a variety of representations to describe geometric relationships and solve problems.
G.5A	Use numeric and geometric patterns to develop algebraic expressions representing geometric properties.
G.5B	Use numeric and geometric patterns to make generalizations about geometric properties, including properties of polygons, ratios in similar figures and solids, and angle relationships in polygons and circle.
G.8	Congruence and the geometry of size. The student uses tools to determine measurements of geometric figures and extends measurement concepts to find perimeter, area, and volume in problem situations.
G.8A	Find areas of regular polygons, circles, and composite figures.
G.8F	Use conversions between measurement systems to solve problems in real world situations.
G.9	Congruence and the geometry of size. The student analyzes properties and describes relationships in geometric figures.
G.9B	Formulate and test conjectures about the properties and attributes of polygons and their component parts based on explorations and concrete models.

GETTING READY FOR INSTRUCTION

Performance Indicator(s):

- Use patterns to develop formulas to represent properties of polygons. Make and apply generalizations about the properties of polygons. Use characteristics of polygons and regular polygons to solve problems involving area, perimeter, and angle measures given specific regular polygon(s). (G.2B; G.5A, G.5B; G.8A; G.9B)

ELPS: 1E, 1H, 2E, 2I, 3D, 4F, 5G

Key Understandings and Guiding Questions:

- Polygons are classified by specific characteristics.
 - What are the differences between convex and concave polygons?
 - How are polygons classified?
- Formulas for geometric properties can be developed by extending patterns and making generalizations.
 - What geometric characteristics are used to develop formulas for the properties of polygons?
 - How can the different representations of geometric properties be used to connect algebra and geometry?
- Formulas for geometric properties can be used to make predictions and solve problems.
 - How can the formulas for geometric properties of polygons be used to make predictions and solve problems involving regular polygons?

Vocabulary of Instruction:

- | | | |
|------------|-----------------|------------|
| • convex | • triangle | • hexagon |
| • concave | • quadrilateral | • heptagon |
| • polygons | • pentagon | • octagon |

Geometry Hs Mathematics Unit 12 Lesson 1

M Mark



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