



4639-GeoGems Polygons

Description:

Discover the gems in geometry! Players develop fluency in naming and identifying the properties of six types of triangles, seven classes of quadrilaterals, pentagons, hexagons, and octagons. Builds geometric literacy through the use of words such as congruent, parallel, perpendicular, obtuse, acute, isosceles, equilateral, etc. Two name card sets and four property card sets offer progressive levels of play. Unique game board and moves multiply interest. Covers much of 2-D geometry content in state and national standards.

WCA 4639 **Grades 4 & Up** **\$23.95**

Intended Use: Build fluency in naming polygons and identifying their properties

Key Objectives: (State, National & Common Core Standards)

- Identify 16 polygons, ranging from triangles to octagons, each with multiple shapes and orientations
- Use appropriate geometric vocabulary to describe the properties of polygons
 - Identify the number of sides, vertices, or diagonals
 - Identify parallel, perpendicular, and congruent parts
 - Identify right, acute, and obtuse angles
 - Identify adjacent, opposite, complementary, or supplementary angles
 - Know the sum of the angles of any triangle is 180° and the sum of the angles of any quadrilateral is 360°

Features:

- Features six kinds of triangles, seven different quadrilaterals, pentagons, hexagons, and octagons
- Sharpens observation of properties dealing with sides, angles, vertices, and diagonals
- Strengthens geometry literacy as players apply words such as congruent, parallel, perpendicular, obtuse, acute, isosceles, equilateral, and adjacent
- Two card sets with names and four card sets with properties offer several levels of play.
- Covers a major part of the geometry curriculum addressed in both state and national standards
- Pawns may be moved in any direction, presenting two to five shapes for study.
- The game remains fair even when players use different game cards.
- The scope can be expanded by developing new game cards and adding to the Master List of Properties.

Game Structure:

The object of Polygons Names is to identify the 16 polygons pictured on the game board. The object of Polygon Properties is to observe which of 45 properties belong to each shape. The winner is the first to claim all the names or properties on the game card.

Contents:

Game Board
Spinner
Instructions
6 Sets of Cards
Answer Key
60 Chips
4 Pawns

Dimensions: 16.5 x 8 x 1.25"

Weight: 24 oz

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Supports
STATE, NATIONAL
& COMMON CORE
Mathematics
STANDARDS