

## Problem Solving Using Power Polygons

### **Benchmarks**

#### **3-4 grades**

##### **Geometry and Spatial Sense**

E. Use attributes to describe, classify, and sketch plane figures.

F. Develop definitions of classes of shapes.

##### **Patterns, Functions, and Algebra**

B. Use patterns to make predictions, identify relationships, and solve problems.

#### **5-7 grades**

##### **Geometry and Spatial Sense**

D. Identify, describe, and classify two-dimensional objects using their properties.

##### **Patterns, Functions, and Algebra**

A. Describe, extend, and determine the rule for patterns and relationships in geometry applications.

#### **8-10 grades**

##### **Geometry and Spatial Sense**

A. Formally define geometric figures.

H. Establish the validity of conjectures about geometric objects, their properties and relationships by counter-example, inductive and deductive reasoning.

##### **Patterns, Functions, and Algebra**

A. Transform information from one representation to another representation of a relation or function.