# North Penn School District 

Elementary Math Parent Letter

## Grade 2

## Unit 7 - Chapter 11: Geometry and Fraction Concepts

## Examples for each lesson

Lesson 11.1
Three-Dimensional Shapes


More information on this strategy is available on Animated Math Model \#55.
Lesson 11.2

## Attributes of Three-Dimensional Shapes



## Lesson 11.3

## Two-Dimensional Shapes

Count sides and vertices. A pentagon has 5 sides.


A hexagon has 6 vertices.


More information on this strategy is available on Animated Math Model \#56.
Lesson 11.4
Angles in Two-Dimensional Shapes

Two sides meet and form an angle.

There are $\xlongequal{\text { angles in a square. }}$


## Lesson 11.5

## Sort Two-Dimensional Shapes



More information on this strategy is available on Animated Math Model \#57.

## Lesson 11.6

## Partition Rectangles

How many color tiles cover this rectangle?


Make a row of color tiles on the rectangle. Trace around the square tiles.


How many squares?
3 squares

Lesson 11.7
Equal Parts


Lesson 11.8
Show Equal Parts of
a Whole


## Describe Equal Parts

One equal part of each shape is shaded.


A half of the shape is shaded.


A third of the shape is shaded.


A fourth of the shape is shaded.

## Lesson 11.10

## Problem Solving•Equal

## Shares

Two gardens are the same size. Each garden is divided into halves, but the gardens are divided differently. How might the gardens be divided?

Unlock the Problem

| What do I need to find? <br> how the gordens ore What information do <br> I need to use? <br> divided <br> There are $\quad 2$ <br> Each garden is divided into <br> halves  <br> Show how to solve the problem.  |
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## Vocabulary

Angle - a shape formed by two line segments that share the same endpoint

Cone - a three-dimensional shape with a circular base and a point at the top
Cube - a three-dimensional shape with six square faces
Cylinder - a three-dimensional shape with two circular parallel bases and a curved surface
Edge - where two faces of a three-dimensional shape meet
Face - a polygon that is a flat surface of a three-dimensional shape

Fourths - four equal parts
Halves - two equal parts
Hexagon - a polygon with six sides
Pentagon -- a polygon with five sides
Quadrilateral - a polygon with four sides
Rectangular prism - a three-dimensional shape with six faces that are rectangles
Side - one of the line segments that forms a polygon
Thirds - three equal parts
Vertex - the point where 2 sides of a polygon meet or 3 or more edges of a three-dimensional shape meet

