

# MATH: UNIT FOUR



## "I Can" Statements

- G.1 I can explain a shape based on its attributes.
- G.1 I can categorize shapes that may share attributes.
- G.1 I understand quadrilaterals include all four-sided shapes.
- G.2 I can partition shapes into equal areas and identify the unit fraction.
- MD.4 I can measure an object to the nearest quarter inch using a ruler
- MD.4 I can display measurement data on a line plot.
- MD.8 I can solve real world problems involving perimeter of polygons.

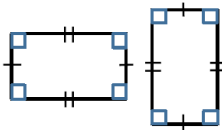
Key Vocabulary	Definitions
<b>polygon</b>	a plane shape having three or more straight sides
<b>quadrilateral</b>	all four-sided polygons
<b>attribute</b>	characteristics, properties or features which allow items to be sorted and classified as belong to a set or group
<b>parallel</b>	Two lines that go on forever and do not intersect.
<b>partition</b>	splitting a shape into smaller parts
<b>fraction</b>	any part of a group, number, or whole
<b>unit fraction</b>	a fraction with a numerator of one.
<b>perimeter</b>	the distance around a shape

## Quadrilaterals

A quadrilateral is a four-sided shape.



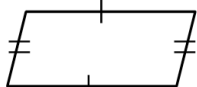
- square
- 4 equal sides
  - opposite sides parallel
  - four 90° angles



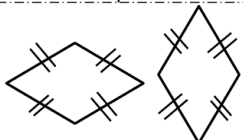
- rectangle
- 2 equal parallel long sides
  - 2 equal parallel short sides
  - four 90° angles



- trapezoid
- 1 pair of parallel sides
  - 1 pair of non-parallel sides



- parallelogram
- 2 pairs of parallel sides
  - looks like a leaning rectangle



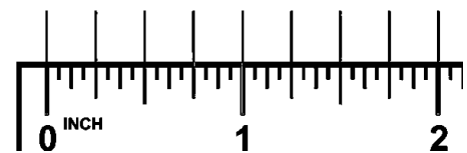
- rhombus
- parallelogram with 4 equal sides
  - has no 90° angles



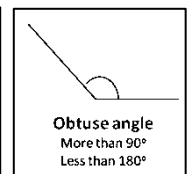
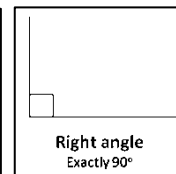
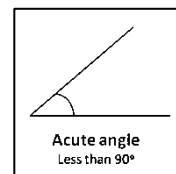
- kite
- 2 pairs of equal sides
  - has no parallel sides

## Measuring to the Nearest Quarter Inch

0  $\frac{1}{4}$   $\frac{2}{4}$   $\frac{3}{4}$  1  $\frac{1}{4}$   $\frac{2}{4}$   $\frac{3}{4}$  2



## Types of Angles



## Unit Fraction



$\frac{1}{4}$



$\frac{1}{8}$



$\frac{1}{3}$