# Attributes of 2-Dimensional Shapes 

## Everyday Math 8-1

## Attributes

Characteristics used to describe something:
color
shape
size

What attributes could we use to describe our classmates?

## Big Ideas

## Number of Angles



## Number of Sides



Shapes have attributes.
Types of Lines


Types of Angles


## Closed or Open



## Shape Cards

Look at your Shape Cards
Pick one shape with 3 sides and another with 4 sides.

Be prepared to describe the shapes

Attributes of 3-Sided Shapes
Which Cards have 3 sides?
Describe a 3-sided shape? What do we call 3-sided shapes?
tri means three

## tri - from the Latin and Greek for three

triangle
trigonometry
trillion
triple
triathlon
triceps
tricycle
trio
triad
trident
trilogy

A triangle is a polygon with three sides (edges) and three vertices

The word "polygon" derives from the Greek то入ús (polús) "much", "many" and үcuvía (gōnía) "corner", "angle", or yóvu (gónu) "knee".

BrainPop - Polygons

Triangle has three sides (edges), three angles and three vertices


Attributes of 4-sided shapes
Which Shape Cards have 4 sides?
Describe a 4-sided shape.
Take a look at Two-Dimensional Shapes Poster.

Locate the 4-sided shapes.

U'Mo-Dimenstonal Sicpoes


## All 4-sided shapes are quadrilaterals

The origin of the word "quadrilateral" is the two Latin words quadri, a variant of four, and latus, meaning "side"

# 4-sided polygons (quadrilaterals) 

All 4-sided polygons are quadrilaterals
Some quadrilaterals have specific names:
Can you think of some names of 4-sided polygons? trapezoids, rhombuses, squares, rectangles, kite

## 5-Sided Shapes

All 5-Sided Shapes are Pentagons Penta from the Greek word for five


## 6-Sided Shapes

All 6 -sided shapes are hexagons
A hexagon is a six-sided polygon hexa comes from the Greek word for 6


What is the Same About all of the Shapes?

- All of the shapes are made up of straight sides (line segments).
- Any two sides that meet form an angle. All the shapes have angles.
- The point at which two sides of a shape meet is called the vertex.


## Parallel Lines



Parallel lines are the same distance apart.
Parallel lines never intersect or cross

## Polygon Song

