


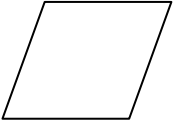
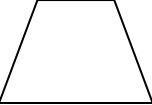


	A _____ is a 4 sided polygon.
	A _____ has two parallel pairs of opposite sides.
	A _____ has two pairs of opposite sides parallel, and four right angles. It is also a parallelogram, since it has two pairs of parallel sides.
	A _____ has two pairs of parallel sides, four right angles, and all four sides are equal. It is also a rectangle and a parallelogram.
	A _____ is defined as a parallelogram with four equal sides. Is a rhombus always a rectangle? No, because a rhombus does not have 4 right angles.
	_____ only have one pair of parallel sides. It's a type of quadrilateral that is not a parallelogram.

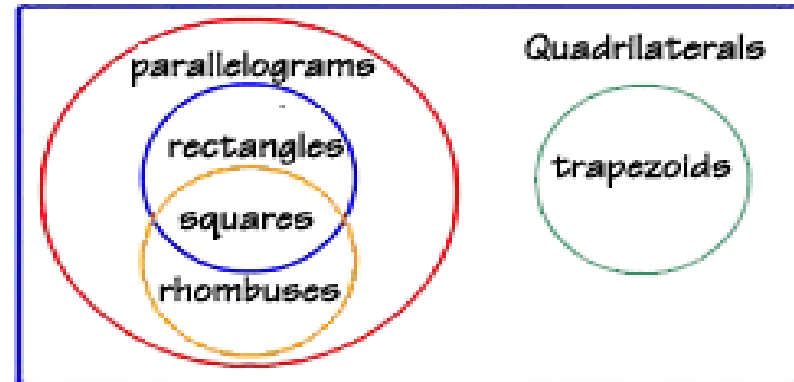
Rhombus
Rectangle

Quadrilateral
Parallelogram

Square

Trapezoid

Venn Diagram



Complete the sentences by writing **always**, **sometimes**, or **never**.

A rhombus is _____ a square.

A parallelogram is _____ a rectangle.

A rhombus is _____ a parallelogram.

A trapezoid is _____ a parallelogram.

A square is _____ a rhombus.

True or False???

A **parallelogram** is never a square.
Why or why not?

A **square** is always a rectangle.
Why or why not?

A **rhombus** is never a square.
Why or why not?

A **trapezoid** is parallelogram.
Why or why not?

A **parallelogram** has one set of opposite sides.
Why or why not?

A **rectangle** has four right angles.
Why or why not?

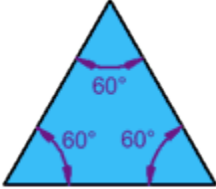
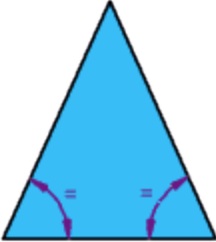

A **rhombus** always has four equal sides.
Why or why not?

The **sum of the interior angles** of a **quadrilateral** is 180° .
Why or why not?

Classification of Triangles

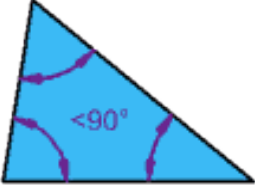
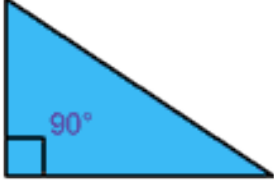
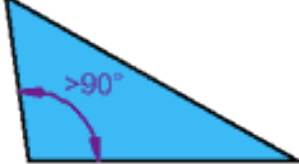
Equilateral, Isosceles and Scalene

There are three special names given to triangles that tell how many sides (or angles) are equal.

	<p>Equilateral Triangle</p> <p>Three equal sides Three equal angles, always 60°</p>
	<p>Isosceles Triangle</p> <p>Two equal sides Two equal angles</p>
	<p>Scalene Triangle</p> <p>No equal sides No equal angles</p>

What Type of Angle?

Triangles can also have names that tell you what **type of angle** is inside:

	<p>Acute Triangle All angles are less than 90°</p>
	<p>Right Triangle Has a right angle (90°)</p>
	<p>Obtuse Triangle Has an angle more than 90°</p>

Draw the type of triangle described by the lengths of its sides and by the measures of its angles.

Use a ruler.

Triangle by Length of Sides			
		Scalene	Isosceles
Triangle by Angle Measure	Acute		
	Obtuse		

Polygons

What is a polygon?

What is a regular polygon?

Types of polygons:

Name	Number of Sides
Triangle	
Quadrilateral	
Pentagon	
Hexagon	
Heptagon	
Octagon	
Nonagon	
Decagon	

Other Geometry Words to Know

Draw an example of the following words:

Name	Symbol	Definition or Example
Parallel		
Perpendicular		
Intersecting		
Congruent		
Angle		