## Quadrilaterals

## Quadrilateral

- a quadrilateral is a polygon with 4 sides.



## Specific Quadrilaterals

- There are several specific types of quadrilaterals. They are classified based on their sides or angles.



## Quadrilaterals

Trapezoids Isosceles Trapezoids

## Kites




## Examples of Quadrilaterals



## A parallelogram has two pairs of parallel sides.

## Quadrilaterals



## Parallelogram

- Two pairs of parallel sides
- opposite sides are actually congruent.


## Quadrilaterals



## Rhombus

- Still has two pairs of parallel sides;
- ALL sides congruent.

4 in.


## Quadrilaterals



## Rectangle

- Still has two pairs of parallel sides; with opposite sides congruent.
- Has four right angles


## Quadrilaterals



## Square

- Still has two pairs of parallel sides.
- Has four congruent sides
- Has four right angles


A trapezoid has only one pair of parallel sides.

2 pairs adjacent


## Quadrilaterals



## An isosceles

 trapezoid is a trapeziod with the non-parallel sipplass ${ }_{\text {djacent }}$ congruent. congruent sides

## Quadrilaterals



## Trapezoid

- has one pair of parallel sides.

trapezoids


Isosceles trapezoid

Isosceles Trapezoid - the non-parallel sides are congruent.

## Quadrilaterals



## Example of a Kite

A kite is a quadrilateral with NO parallel sides. It does have 2 pairs of adjacent, congruent sides.


## Quadrilateral Angles

- If you add all the interior angles in a quadrilateral together, it will equal 360 degrees.

