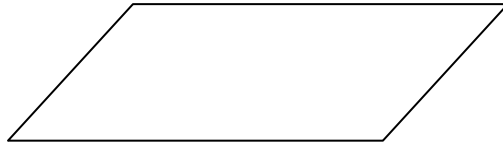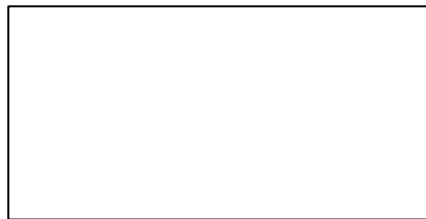# Parallelograms

Parallelogram

Definition: quadrilateral with two pairs of parallel sides

Properties:
- Opposite sides are congruent
- Opposite angles are congruent
- Diagonals bisect each other
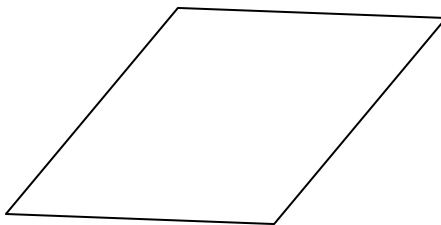- Consecutive angles are supplementary

Rectangle

Quadrilateral with 4 right angles

(Parallelogram properties apply)
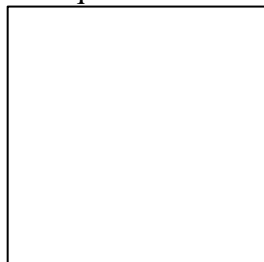
–The diagonals are congruent

Rhombus

Quadrilateral with 4 congruent sides

(Parallelogram properties apply)

- Diagonals cross each other at 90ºangles (perpendicular)

- The diagonals bisect the angles they connect

Square

4 right angles, 4 congruent sides

A square is a parallelogram, and a rectangle, and a rhombus.

So it has all of the properties listed above.

quadrilaterals

No pairs of
parallel sides

quadrilat-
eral

kite

1 pair of
parallel sides

trapezoid

isosceles
trapezoid

2 pairs of
parallel sides

parallelograms

rhombus

square

rectangles