# of sides	Polygon	Sum of interior angles	Sum of exterior angles
n	n-gon	(n-2)(180)	360
3	Triangle	180	360
4	Square	360	360
5	Pentagon	540	360
6	Hexagon	720	360
7	Heptagon	900	360
8	Octagon	1080	360
9	Nonagon	1260	360
10	Decagon	1440	360
11	Hendecagon	1620	360
12	Dodecagon	1800	360

Parallelogram	A quadrilateral with both pairs of opposite sides parallel
Properties	Opposites sides are congruent
	Opposite angles are congruent
	Consecutive angles are supplementary
	If there is 1 right angle, all of the angles are right angles
	Diagonals bisect each other
	A diagonal split it into two congruent triangles
Conditions	Both pairs of opposite sides are congruent
	Both pairs of opposite angles are congruent
	Diagonals bisect each other
	One pair of opposite sides is both parallel and congruent

Rectangle	A parallelogram with 4 right angles
Properties	All 4 angles are right
	Opposite sides are parallel
	Opposite sides are congruent
	Opposite angles are congruent
	Consecutive angles are supplementary
	Diagonals bisect each other
	Diagonals are congruent

Rhombus	A parallelogram with 4 congruent sides
Properties	Diagonals are perpendicular
	Each diagonal bisect a pair of opposite angles
Conditions	Both pairs of opposite sides are congruent
	Is a parallelogram & diagonals are perpendicular
	Is a parallelogram & a diagonal bisects a pair of opposite angles
	Is a parallelogram & consecutive sides are congruent
Square	A parallelogram with 4 congruent sides and 4 right angles
Conditions	Both a rectangle and a rhombus
Trapezoid	A quadrilateral with exactly 1 pair of parallel sides
Isosceles trapezoid	A trapezoid with congruent legs
Properties	Each pair of base angles are congruent
	Diagonals are congruent
Conditions	1 pair of base angles are congruent
	Diagonals are congruent
Trapezoid midsegment	A segment that connects the midpoints of a trapezoid’s legs
Properties	Parallel to the bases
	Measure is the average of the bases
Kite	A quadrilateral with two pairs of consecutive congruent sides
Properties	Diagonals are perpendicular
	Exactly 1 pair of opposite angles are congruent