# Chapter 8 Summary Sheet 

Polygon Interior Angles

| Sum | Each Angle |
| :--- | :--- |
| $(n-2) \cdot 180$ | $\frac{(n-2) \cdot 180}{n}$ |

Polygon Exterior Angles

| Sum | Each Angle |
| :---: | :---: |
| $360^{\circ}$ | $\frac{360^{\circ}}{\mathrm{n}}$ |


| Polygon | Quadrilateral | Pentagon | Hexagon | Heptagon | Octagon | Nonagon | Decagon | Dodecagon |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \# of Sides | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ | $\mathbf{1 2}$ |

## Parallelogram



Rhombus, Rectangle, and Square


Kite


One Pair of Opposite $\angle$ 's $\cong \quad$ One Pair of Opposite Angles Bisected


Kite - Quadrilateral with two pairs of consecutive congruent sides



Quadrilateral Property Chart

| Property | Parallelogram | Rectangle | Rhombus | Square | Kite | Trapezoid | Isosceles Trapezoid |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| The sum of all the interior angle measures is $360^{\circ}$ | X | X | X | X | X | X | X |
| Both pairs of opp. sides are \\| | X | X | X | X |  |  |  |
| Exactly 1 pair of opp. sides are \|| |  |  |  |  |  | X | X |
| Both pairs of opp. sides are $\cong$ | X | X | X | X |  |  |  |
| Exactly 1 pair of opp. sides are $\cong$ |  |  |  |  |  |  | X |
| All sides are $\cong$ |  |  | X | X |  |  |  |
| Both pairs of opp. $\angle$ 's are $\cong$ | X | X | X | X |  |  |  |
| Exactly 1 pair of opp. $\angle$ 's are $\cong$ |  |  |  |  | X |  |  |
| All $\angle$ 's are $\cong$ |  | X |  | X |  |  |  |
| Diagonals are $\perp$ |  |  | X | X | X |  |  |
| Diagonals are $\cong$ |  | X |  | X |  |  | X |
| Diagonals bisect each other | X | X | X | X |  |  |  |
| Diagonals bisect opp. L's |  |  | X |  |  |  |  |
| There are exactly 4 pairs of consecutive supplementary $\angle$ 's | X | X | X | X |  |  |  |
| There are exactly 2 pairs of consecutive supplementary L's |  |  |  |  |  | X | X |

