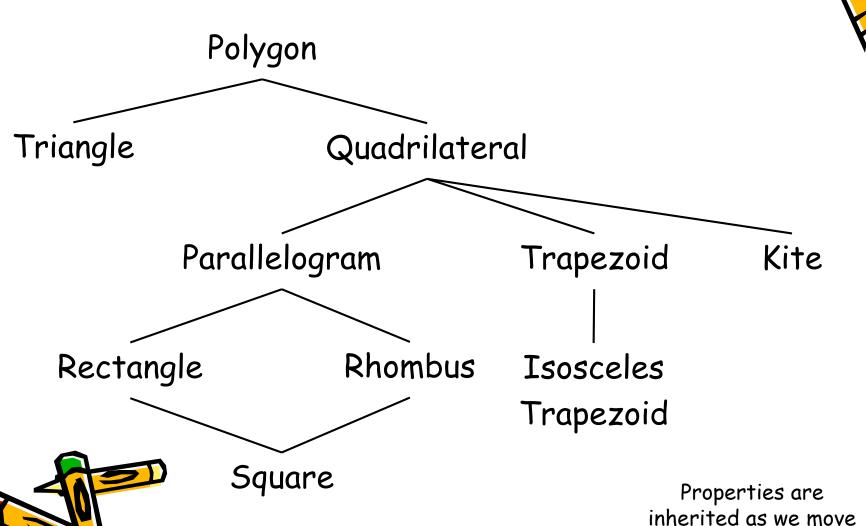


Our Polygon Family Tree



down the tree

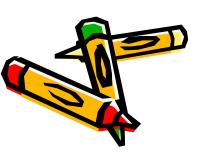
Rectangle

A rectangle is a parallelogram with a few added properties: Properties of a parallelogram:

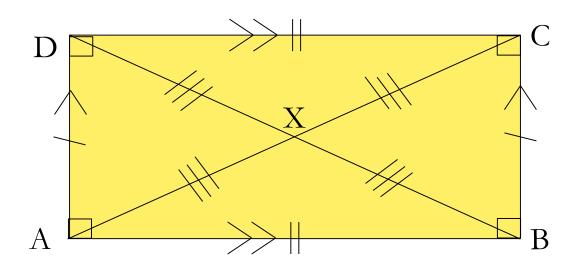
- 1.
- 2.
- 3.
- 4.
- 5.

Plus:

- 6. Diagonals are congruent
- 7. 4 right angles



Rectangle



Notice that since the diagonals of a rectangle are congruent and they bisect each other, the result is 4 isosceles triangles.





Rectangle

The diagonals of rectangle PQRS intersect at T. Given that $m\angle RPS = 62^{\circ}$ and QS = 18, find the indicated measure.

