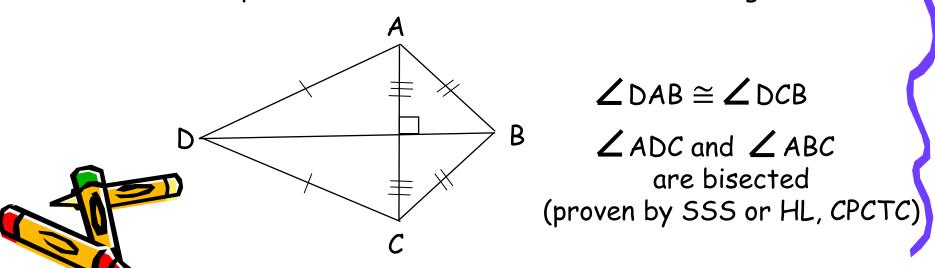


Kites

- A kite is a quadrilateral with two pairs of consecutive sides that are congruent, but opposite sides are not congruent.
- The diagonals are perpendicular
- Exactly one diagonal is bisected
- Exactly one pair of opposite angles are congruent and exactly one pair of opposite angles are bisected (not the same pair)
- · Like other quadrilaterals, the sum of the interior angles is 360.



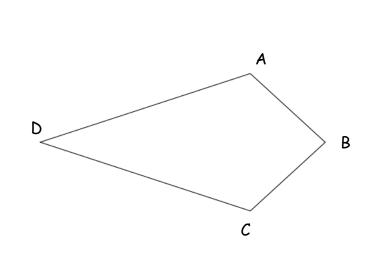
$$m \angle A = 130$$

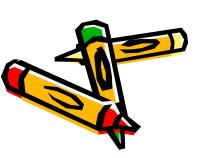
$$\mathbf{m} \angle B = 2y + 10$$

$$\mathbf{m} \angle C = 6x + 10$$

$$m \angle D = y$$

Find x and y.





$$AB = 65$$

$$AD = 6y - 2$$

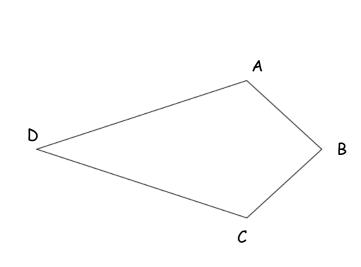
$$BC = 5x + 5$$

$$DC = 70$$

$$m \angle D = 40^{\circ}$$

Find x, y, AC, and DB.

Round to the tenth.





$$AC = 50$$

$$m \angle D = 40^{\circ}$$

$$m \angle B = 130^{\circ}$$

Find the perimeter of Kite ABCD.

