

# Warm-up

① What Shapes have opposite  $\angle$ 's congruent?



rectangle, rhombus, parallelogram,  
Square

② " " are equilateral?

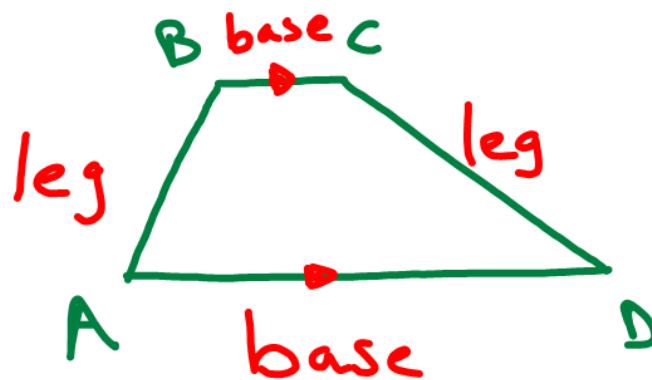
all equal sides

Square ; rhombus !

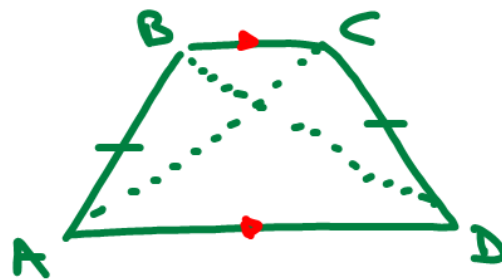
# 8.5 Trapezoids & Kites

- Island of the Misfits

The Trapezoid - One set of parallel lines

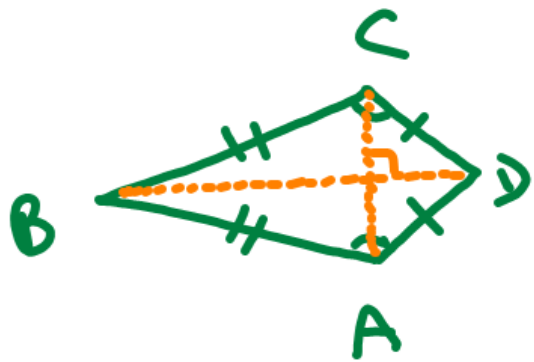


- \*  $\overline{BC} \parallel \overline{AD}$  are bases
- \*  $\overline{AB} \parallel \overline{CD}$  legs
- \* 1 set parallel



- ### Isosceles Trapezoid
- \* legs are equal
  - \*  $\angle A \cong \angle D$ ,  $\angle B \cong \angle C$
  - \* Diagonals are  $\cong$   
 $\overline{AC} \cong \overline{BD}$

The Kite - 2 pair of adjacent sides  
(not opposite)



- \*  $\overline{AB} \cong \overline{BC}, \overline{AD} \cong \overline{DC}$
  - \*  $\angle A \cong \angle C$  are congruent
  - \* Diagonals are  $\perp$
- $$\overline{BD} \perp \overline{AC}$$