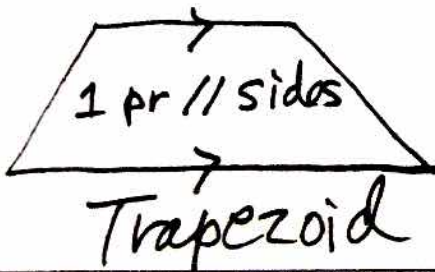
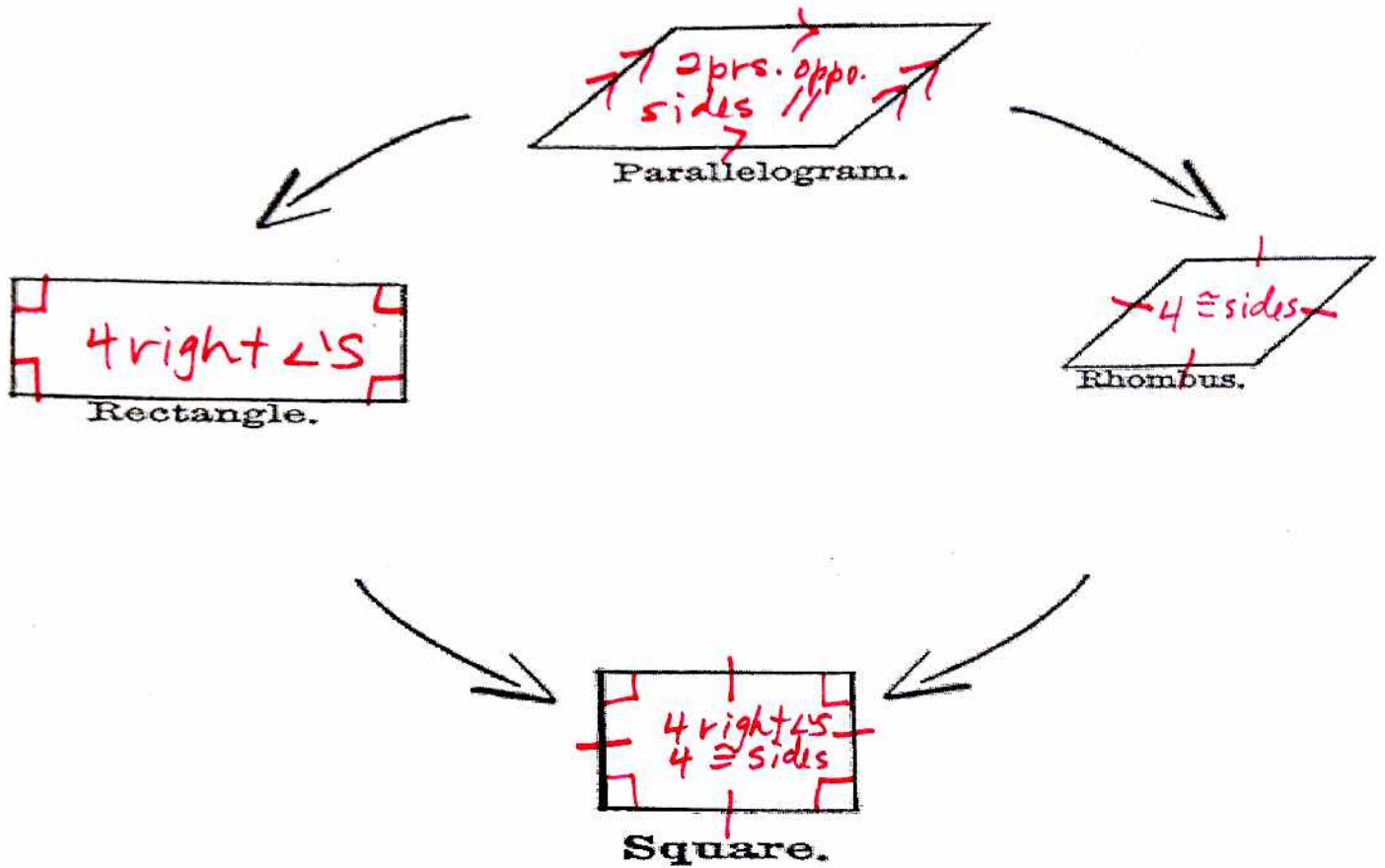
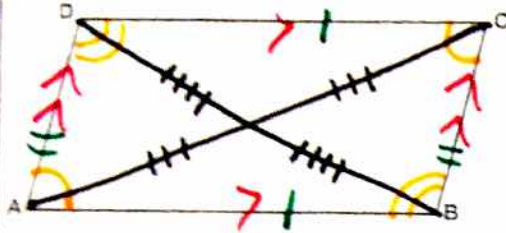


Quadrilateral Flow Chart

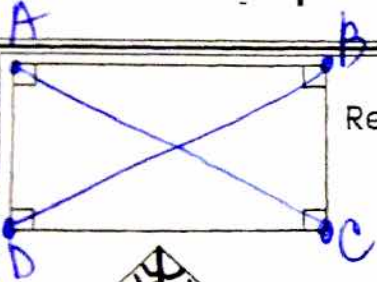
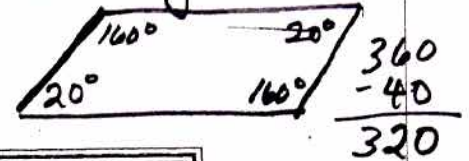


Properties of Parallelograms



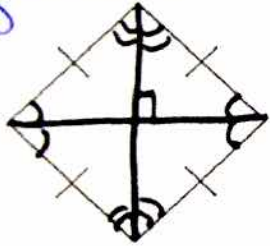
- Four sides.
- Both pairs of opposite sides are parallel.
- Both pairs of opposite sides are congruent.
- Both pairs of opposite angles are congruent.
- Diagonals bisect each other.
- *Consecutive Angles Supplementary*

Special Parallelograms



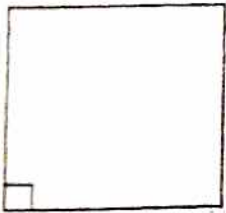
- Rectangle
- Parallelogram with four right \angle 's.
 - Diagonals are congruent.

$$AC \cong BD$$



Rhombus

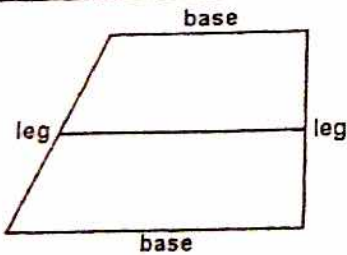
- Parallelogram with four congruent sides.
- Diagonals are perpendicular.
- Diagonals bisect the \angle 's of the rhombus.



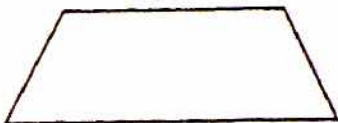
Square

- Parallelogram with four right \angle 's and four congruent sides.
- Diagonals are perpendicular.
- Diagonals bisect the \angle 's of the square.

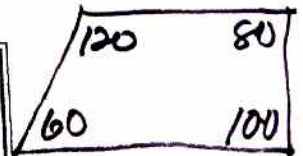
Trapezoids



- Four sides
- Exactly one pair of parallel sides
- The median is parallel to the bases.
- The median has a length equal to the average of the bases.



Isosceles trapezoid



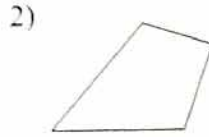
	<u>Parallelogram</u>	<u>Rectangle</u>	<u>Square</u>	<u>Rhombus</u>	<u>Isosceles Trapezoid</u>	<u>Right Trapezoid</u>	<u>General Trapezoid</u>
<u># of Opposite Sides Parallel</u>	2 pairs	2 pairs	2 pairs	2 pairs	1 pr.	1 pr.	1 pr.
<u>Opposite Sides Congruent</u>	yes	yes	yes	yes	NO	NO	NO
<u>Opposite Angles Congruent</u>	yes	yes	yes	yes	NO	NO	NO
<u>Diagonals Congruent</u>	NO	yes	yes	NO	yes	NO	NO
<u>Diagonals Perpendicular</u>	NO	NO	yes	yes	NO	NO	NO
<u>Diagonals Bisect Each Other</u>	yes	yes	yes	yes	NO	NO	NO
<u>Consecutive Angle Sum = 180 degrees</u>	yes	yes	yes	yes	yes but not on opp sides	yes →	→
<u>Diag's Bis. oppo. ∠'s</u>	NO	NO	yes	yes	NO	NO	NO

Identifying Quadrilaterals

State ALL POSSIBLE NAMES for each figure. Choose from Quadrilateral, Trapezoid, Isosceles Trapezoid, Kite, Parallelogram, Rectangle, Rhombus, Square



*parallelogram
quad.*



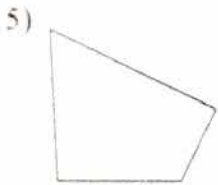
Quad.



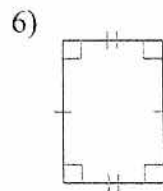
*Trapezoid
quad.*



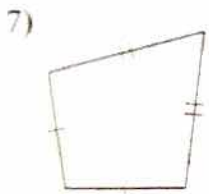
*Isos. Trapezoid
Trapezoid
quad.*



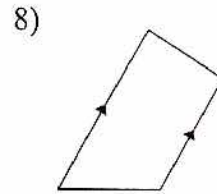
Quad.



*rectangle
quad.
parallelogram*



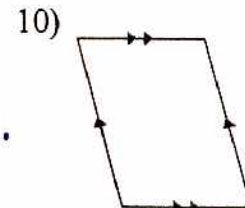
*Kite
quad.*



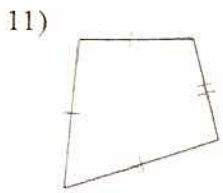
*Trapezoid
quad.*



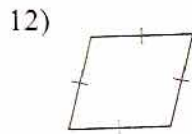
*quad.
Trapezoid
Isos. Trapezoid.*



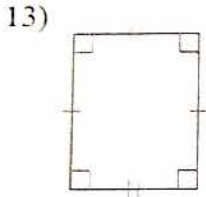
*parallelogram
quad.*



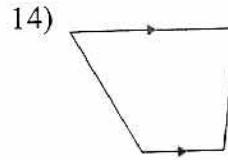
Kite
Quad.



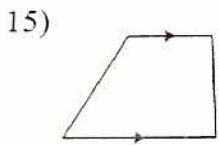
Rhombus
parallelog.
Quad.



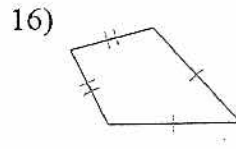
Rect.
Parall.
Quad.



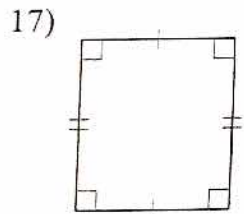
Trap.
Quad.



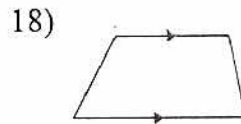
Trap
Qua.



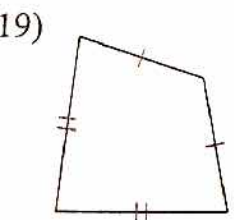
Kite
Quad



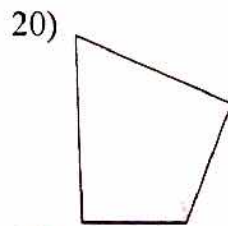
Rect.
Paral.
Quad.



Trap.
Quad.



Kite
Quad.



Quad.