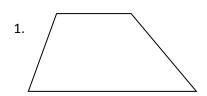
BOOK OF QUADRIALATERALS

Properties of Trapezoids

1. Exactly one pair of _____ sides called the ____

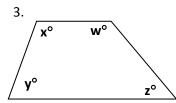


2.

2. The non- _____ sides are called the _____

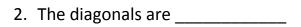


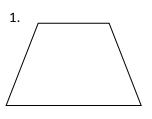
3. Same Side Interior angles are _____



Properties of Isosceles Trapezoids

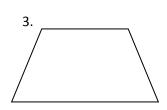
1. The legs are ______





2.

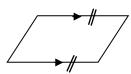
- 3. The base angles are _____
 - * Base angles of a trapezoid are either pair of angles that share a base as a common side



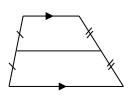
<u>Perpendicular/Parallel Line Theorem:</u> if two lines are \bot to the same line, then the lines are parallel ($\|$) to each other.



<u>Parallelogram/Congruent-Parallel Side Theorem</u>: if one pair of opposite sides of a quadrilateral is both congruent and parallel, then the quadrilateral is a parallelogram.



<u>Trapezoid Midsegment Theorem:</u> The midsegment of a trapezoid is parallel to each of the bases and its length is one half the sum of the bases (average measure of bases).



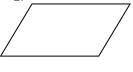
Theorems for Quadrilaterals

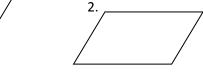
Properties of Kites 1. 1. Two pairs of consecutive sides that are _____ 2. Opposite sides are not _____ 3. One pair of opposite angles is _____ 4. One diagonal _____ the other diagonal 5. 5. One diagonal ______ its vertex angles 6. The diagonals are _____and form 4 _____

| Pro | nerties | οf | Paral | اوار | ograms |
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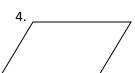
| 1 | Roth | naire | of on | nosita | sides | are | |
|---|------|-------|-------|--------|-------|-----|--|















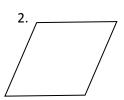
| | Properties of a Square | | | | | | |
|----|--------------------------------------|--|--|--|--|--|--|
| 1. | All properties of a Parallelogram: | | | | | | |
| | a. Both pairs of opposite sides are | | | | | | |
| | b. Both pairs of opposite sides are | | | | | | |
| | c. Both pairs of opposite angles are | | | | | | |
| | d. The diagonals each other | | | | | | |
| 2. | All properties of a Rhombus: | | | | | | |
| | a. All sides are | | | | | | |
| | b. Diagonals are and form 4 | | | | | | |
| | c. The diagonals the angles 3. | | | | | | |
| 3. | All properties of a Rectangle: | | | | | | |
| | a. All angles are | | | | | | |
| | b. Diagonals are | | | | | | |
| | SQUARE | | | | | | |

Properties of a Rhombus

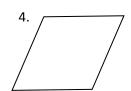
| | | | _ | | |
|---|---------|---------------|------|---------------|---|
| 1 | ΑII | properties | of a | Parallelogram | • |
| | , ,,,,, | P. 0 PC: 11C3 | , | | • |

- a. Both pairs of opposite sides are _____
- b. Both pairs of opposite sides are _____
- c. Both pairs of opposite angles are _____
- d. The diagonals ______each other
- 2. All sides are _____
- 3. Diagonals are _____ and form 4 _____
- 4. The diagonals _____ the angles









Properties of a Rectangle

| 1. | All properties of a Parallelogram: | 1. | | | | | |
|-------------------------------------|--------------------------------------|----|--|------------|----|--|--|
| | a. Both pairs of opposite sides are | | | | | | |
| b. Both pairs of opposite sides are | | | | | | | |
| | c. Both pairs of opposite angles are | | | | | | |
| | d. The diagonals each other | | | | | | |
| 2. | All angles are 2. | | |] <i>,</i> | 2 | | |
| 3. | Diagonals are but not | | | | 3. | | |