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PROPERTIES OF QUADRILATERALS #13

Polgons with four sides are called **QUADRILATERALS**. There are various properties associated with specific kinds of quadrilaterals. The names of quadrilaterals related to the box are listed below along with their properties.

Quadrilateral ABCD is a parallelogram. Opposite sides are parallel and congruent. Consecutive angles are supplementary. The diagonals bisect.

$\overline{AB} \cong \overline{DC}$
 $\overline{AD} \cong \overline{BC}$
 $\overline{AX} \cong \overline{CX}$
 $\overline{BX} \cong \overline{DX}$

Quadrilateral EFGH is a rhombus. It is a parallelogram with four congruent sides. In addition to all the properties of a parallelogram, the diagonals are perpendicular and bisect the opposite angles.

$\overline{EI} \perp \overline{FI}$
 $\angle EIG \cong \angle FIG$
 $\angle HIF \cong \angle EIF$

Quadrilateral TUVW is a rectangle. It is a parallelogram with four right angles. In addition to all the properties of a parallelogram, the diagonals are congruent.

$\overline{TM} \cong \overline{VM}$

If a rectangle is also a rhombus, then it is called a **square**. A square would have all the properties listed previously.

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L4 Properties of Quadrilaterals

Rectangle **Rhombus** **Trapezium**

Square **Kite** **Parallelogram**

F		Name: Opposite sides equal Opposite sides parallel 4 right angles
D		Name: All sides equal Opposite sides parallel Diagonals cross at right angles No right angles
C		Name: All sides equal Opposite sides parallel 4 right angles Diagonals cross at right angles
A		Name: 2 pairs of equal sides Diagonals cross at right angles
G		Name: 1 pair of parallel lines
H		Name: 2 pairs of parallel sides No right angles

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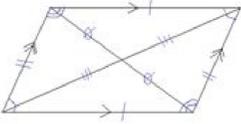
Geometry . Level 4 . 2D Shapes . Properties of Quadrilaterals

Parallelograms Quiz

I. List 5 properties of parallelograms.

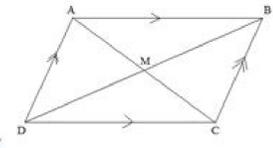
- Opposite sides are parallel
- Opposite sides are congruent
- Opposite angles are congruent
- Consecutive angles are supplementary
- Diagonals bisect each other

SOLUTIONS

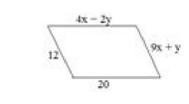


II. For parallelogram ABCD, answer and explain why:

- $\overline{AB} \cong \overline{DC}$ opposite sides are congruent
- $\overline{DM} \cong \overline{BM}$ diagonals bisect each other
- $\angle AMD \cong \angle BMC$ vertical angles congruent
- $\angle BCD \cong \angle BAD$ opposite angles congruent
- $180^\circ = m\angle BAD = m\angle ABC$ OR $\angle ADC$ consecutive angles are supplementary
- $2\overline{AM} = \overline{AC}$ diagonals bisect each other...



III. Solve:
 (Assume each quadrilateral is a parallelogram)

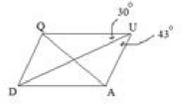


Find x and y:

$9x + y = 12$
 $4x - 2y = 20$
 use combination method

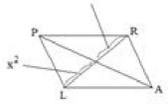
$18x + 2y = 24$
 $4x - 2y = 20$
 $22x = 44$
 $x = 2$

If $x = 2$, then $y = -6$



Find: $\angle UDA$ 30 degrees
 (because alternate interior angles are congruent)
 $\angle UQD$ 107 degrees
 (because $\angle QUA$ is 73 degrees, and consecutive angles are supplementary)

since $x = 3$, the lengths are 9 and 9... LR = 18



Find the length of LR:
 since diagonal is bisected, the segments are congruent:
 $x^2 = 42 - 11x$
 $x^2 + 11x - 42 = 0$
 $(x + 14)(x - 3) = 0$
 $x = -14$ or 3
 or, if $x = -14$, lengths are 196 and 196... LR = 392

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