

Topic: Parallelograms

Essential Question: What are the special properties of parallelograms?

Quadrilateral	a closed figure formed by four segments intersecting at their endpoints
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Parallelogram	a quadrilateral in which opposite sides are parallel
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Diagonals	each diagonal separates the parallelogram into two congruent triangles
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5 Properties of Parallelograms	1. Opposite sides are parallel 2. Opposite sides are congruent 3. Opposite angles are congruent 4. Diagonals bisect each other 5. Consecutive angles are supplementary
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Coordinate Geometry	to find the intersection of the diagonals, use the midpoint formula and the endpoints of either diagonal
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Summary: Parallelograms are a type of quadrilateral identified by their two pairs of opposite, parallel sides.