

7 quadrilaterals and other polygons big ideas learning

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Quadrilaterals: Types, Parts, and Properties

What are Quadrilaterals?

Quadrilaterals are two-dimensional shapes with four sides and four angles. They are named according to the specific arrangement of their sides and angles.

Types of Quadrilaterals

There are seven basic types of quadrilaterals:

1. Square
2. Rectangle
3. Rhombus
4. Trapezoid
5. Parallelogram
6. Kite
7. Deltoid

Parts of a Quadrilateral

The seven parts of a quadrilateral are:

1. Vertices (4)
2. Sides (4)
3. Diagonals (2)

4. Angles (4)
5. Perimeter
6. Area
7. Center

Special Quadrilaterals

There are five special types of quadrilaterals with unique properties:

1. Square
2. Rectangle
3. Rhombus
4. Kite
5. Diamond

Relationship between Triangles and Quadrilaterals

- Triangles are not quadrilaterals because they have only three sides.
- Quadrilaterals and triangles are both polygons, shapes with straight sides and angles.

Other Terms

- **7-sided quadrilateral:** Heptagon
- **9 types of quadrilaterals:** Not a recognized classification.

Grade 7 Quadrilateral

In grade 7, students typically learn about the basic types of quadrilaterals and their properties.

6 Basic Quadrilaterals

1. Square
2. Rectangle
3. Rhombus
4. Trapezoid
5. Parallelogram

6. Kite

All Quadrilaterals are Shapes

Yes, all quadrilaterals are shapes because they have a definite outline and a well-defined area.

Conclusion

Quadrilaterals are a diverse group of shapes with varying properties. By understanding their different types and parts, we can better analyze and solve geometric problems involving these important two-dimensional shapes.

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