

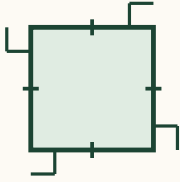


Name: _____

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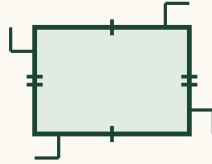
Grade 5

Quadrilateral Family Reference



Square

4 equal sides, 4 right angles



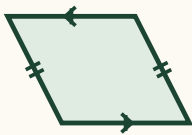
Rectangle

opposite sides equal, 4 right angles



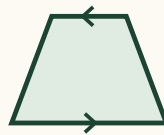
Rhombus

4 equal sides, opposite sides parallel



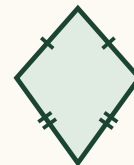
Parallelogram

opposite sides equal & parallel



Trapezoid

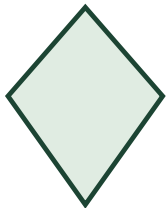
exactly 1 pair of parallel sides



Kite

2 pairs of adjacent equal sides

1. Select ALL the quadrilaterals that have at least one pair of parallel sides.



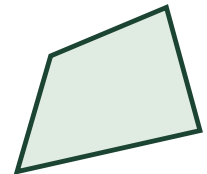
A



B

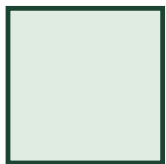


C

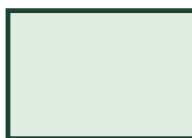


D

2. Select ALL the quadrilaterals that are guaranteed to have four right angles.



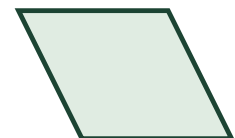
A



B



C

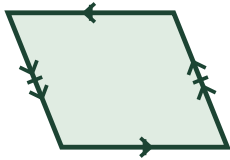


D

Circle the letters of your answers above.



3. Look at the figure below. Decide if each statement is TRUE or FALSE, and explain your thinking.



a) This figure is a square. TRUE / FALSE

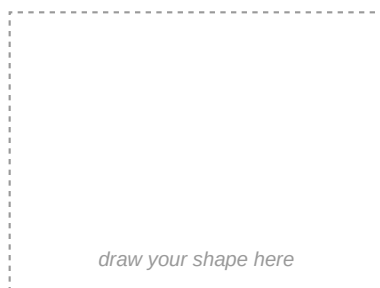
b) This figure is a parallelogram. TRUE / FALSE

4. Circle ALWAYS, SOMETIMES, or NEVER for each statement.

1. A rectangle is a square.	ALWAYS	SOMETIMES	NEVER
2. A square is a rectangle.	ALWAYS	SOMETIMES	NEVER
3. A rhombus is a square.	ALWAYS	SOMETIMES	NEVER
4. A trapezoid is a parallelogram.	ALWAYS	SOMETIMES	NEVER
5. A parallelogram is a quadrilateral.	ALWAYS	SOMETIMES	NEVER

5. A tabletop is shaped like a quadrilateral with exactly one pair of parallel sides. What shape is the tabletop, and how do you know?

6. Challenge: Draw a quadrilateral that belongs to BOTH the rectangle family and the rhombus family. What is the special name for this shape? What must be true about its sides and angles?





Answer Key

1. Select all with at least one pair of parallel sides — B and C

B (trapezoid) has exactly one pair of parallel sides.

C (rhombus) has two pairs of parallel sides.

A (kite) and D (irregular quadrilateral) have no parallel sides.

2. Select all guaranteed to have four right angles — A and B

A (square) and B (rectangle) always have four right angles.

C (rhombus) and D (parallelogram) can be slanted, so their angles are not always 90° .

3. Rhombus figure

a) FALSE — a square needs four right angles; this rhombus is slanted.

b) TRUE — the figure has two pairs of parallel sides, which makes it a parallelogram.

4. Always / Sometimes / Never

1. A rectangle is a square. — SOMETIMES (only when all four sides are equal)

2. A square is a rectangle. — ALWAYS (a square meets every rectangle rule)

3. A rhombus is a square. — SOMETIMES (only when it also has four right angles)

4. A trapezoid is a parallelogram. — NEVER (a trapezoid has only one pair of parallel sides)

5. A parallelogram is a quadrilateral. — ALWAYS (every parallelogram has four sides)

5. Tabletop shape

The tabletop is a trapezoid, since a trapezoid is the only quadrilateral defined by having exactly one pair of parallel sides.

6. Challenge

A quadrilateral that is both a rectangle and a rhombus is a square. All four sides must be equal in length, and all four angles must be right angles.