Parallel Pair Hunt

Sort quadrilaterals, explain two choices, and create your own.

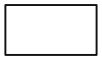
MA.5.GR.1.1 "Classify triangles or quadrilaterals into different categories based on shared defining attributes. Explain why a triangle or quadrilateral would or would not belong to a category."

NAME _____ DATE _____

TWO PAIRS OF PARALLEL SIDES

These quadrilaterals have two pairs of opposite sides that are parallel. Parallel sides stay the same distance apart and never meet.

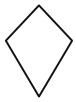
A rectangle belongs in PARALLEL.



FEWER THAN TWO PAIRS

These quadrilaterals do not have two pairs of parallel sides. They may have one pair or no pairs.

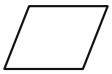
A kite belongs in OTHER.

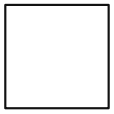


1 SORT

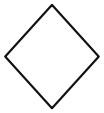
8 items

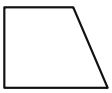
For SORT, circle PARALLEL or OTHER for each figure, then for PROVE IT, choose two figures and explain how you knew.

1.  Figure 1 **PARALLEL** **OTHER**

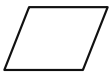
2.  Figure 2 **PARALLEL** **OTHER**

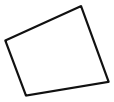
3.  Figure 3 **PARALLEL** **OTHER**

4.  Figure 4 **PARALLEL** **OTHER**

5.  Figure 5 **PARALLEL** **OTHER**

6.  Figure 6 **PARALLEL** **OTHER**

7.  Figure 7 **PARALLEL** **OTHER**

8.  Figure 8 **PARALLEL** **OTHER**

2 PROVE IT

Explain your thinking

Pick two items from Part 1. For each one, tell how you knew where it belonged.

ITEM # _____ **HOW I KNEW** _____

ITEM # _____ **HOW I KNEW** _____

3 MAKE YOUR OWN

One of each

For MAKE YOUR OWN, write or draw one new quadrilateral for PARALLEL and one for OTHER.

PARALLEL

OTHER

CHALLENGE

Can a quadrilateral with exactly one pair of parallel sides belong in PARALLEL? Write yes or no and explain why.

ANSWER KEY

Parallel Pair Hunt

GRADE 5 · MA.5.GR.1.1

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (parallelogram)	**PARALLEL**	A parallelogram has two pairs of opposite parallel sides.
2	Figure 2 (square)	**PARALLEL**	A square has two pairs of opposite parallel sides.
3	Figure 3 (polygon)	**OTHER**	This quadrilateral has no pairs of parallel sides.
4	Figure 4 (rhombus)	**PARALLEL**	A rhombus has two pairs of opposite parallel sides.
5	Figure 5 (right_trapezoid)	**OTHER**	A right trapezoid has only one pair of parallel sides.
6	Figure 6 (polygon)	**OTHER**	This quadrilateral has no pairs of parallel sides.
7	Figure 7 (parallelogram)	**PARALLEL**	A parallelogram has two pairs of opposite parallel sides.
8	Figure 8 (polygon)	**OTHER**	This quadrilateral has no pairs of parallel sides.

PART 2 · PROVE IT

Accept any explanation that names the deciding feature from the rule box for the chosen item.

PART 3 · MAKE YOUR OWN (SAMPLE ANSWERS)

- **PARALLEL**: A square with side lengths of 5 cm.
- **OTHER**: A quadrilateral with no parallel sides.

Challenge: No. It has only one pair of parallel sides, but PARALLEL requires two pairs of parallel sides.

For PROVE IT, students should identify the number of pairs of opposite parallel sides in each chosen figure. Accept correct explanations in students' own words.