Corner Detectives

Sort four-sided shapes and prove two choices.

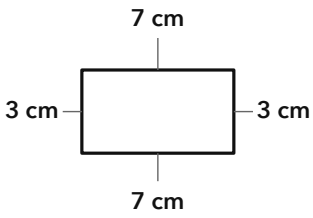
3.G.A.26 "Recognize and describe polygons (up to 8 sides), triangles, and quadrilaterals (rhombuses, rectangles, and squares) based on the number of sides and the presence or absence of square corners. a..."

NAME _____ DATE _____

FOUR SQUARE CORNERS

All four corners of the shape are square corners.

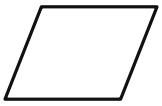
A 7 cm by 3 cm card.



FEWER THAN FOUR SQUARE CORNERS

The shape has fewer than four square corners. It might have two or none.

A slanted sign with no square corners.



1 SORT

8 items

Look at each figure and circle FOUR or FEWER to show how many square corners it has.

1.

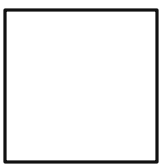


Figure 1

FOUR FEWER

2.

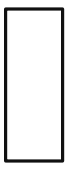


Figure 2

FOUR FEWER

3.

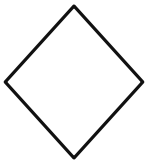


Figure 3

FOUR **FEWER**

4.

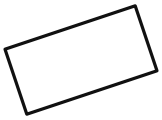


Figure 4

FOUR **FEWER**

5.

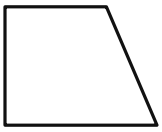


Figure 5

FOUR **FEWER**

6.

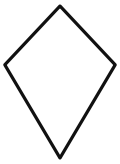


Figure 6

FOUR **FEWER**

7.



Figure 7

FOUR **FEWER**

8.

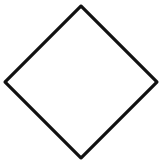


Figure 8

FOUR **FEWER**

2 PROVE IT

Explain your thinking

Choose two figures from Part 1 and explain how you knew where each belongs.

ITEM # _____ **HOW I KNEW** _____

ITEM # _____ **HOW I KNEW** _____

3 MAKE YOUR OWN

One of each

Draw one new four-sided shape for FOUR and one for FEWER. Label how many square corners each has.

FOUR

FEWER

CHALLENGE

Draw a four-sided shape with exactly two square corners. Explain which group it belongs in.

ANSWER KEY # Corner Detectives

GRADE 3 · 3.G.A.26

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (square)	**FOUR**	A square has four square corners.
2	Figure 2 (polygon)	**FOUR**	This tall rectangle has four square corners.
3	Figure 3 (rhombus)	**FEWER**	This rhombus has no square corners.
4	Figure 4 (polygon)	**FOUR**	Adjacent sides meet at square corners, even though the shape is tilted.
5	Figure 5 (right_trapezoid)	**FEWER**	A right trapezoid has two square corners, not four.
6	Figure 6 (kite)	**FEWER**	This kite has fewer than four square corners.
7	Figure 7 (polygon)	**FOUR**	This wide rectangle has four square corners.
8	Figure 8 (polygon)	**FOUR**	The tilted square has four square corners.

PART 2 · PROVE IT

Task: Choose two figures from Part 1 and explain how you knew where each belongs.
Accept any explanation that names the deciding feature from the rule box for the chosen item.

PART 3 · MAKE YOUR OWN (SAMPLE ANSWERS)

- **FOUR**: A 6 cm by 2 cm rectangle, labeled 4 square corners.
- **FEWER**: A slanted four-sided shape with no square corners, labeled 0 square corners.

Challenge: A right trapezoid with two square corners belongs in FEWER because two is less than four.

For Part 2, accept explanations that correctly count square corners in each chosen figure. For Part 3, check that each drawing has four sides and matches its labeled corner count.