Count the Sides

Sort shapes, prove two choices, and make your own.

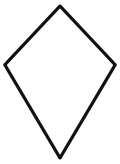
2.G.A.25.a "Recognize and draw shapes having specified attributes."

NAME _____ DATE _____

FOUR STRAIGHT SIDES

Count the straight sides around the shape. A shape with exactly 4 straight sides belongs here.

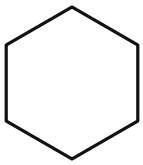
Kite



NOT FOUR STRAIGHT SIDES

A shape belongs here if it does not have exactly 4 straight sides.

Hexagon



1 SORT

8 items

Circle FOUR or OTHER for each figure, then choose two figures for PROVE IT and explain how you knew where each belongs.

1.



Figure 1

FOUR OTHER

2.

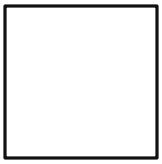


Figure 2

FOUR OTHER

3.

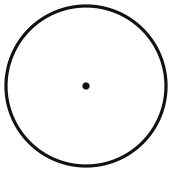


Figure 3

FOUR **OTHER**

4.

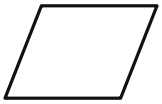


Figure 4

FOUR **OTHER**

5.

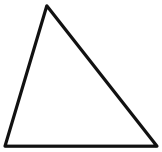


Figure 5

FOUR **OTHER**

6.

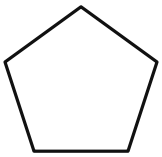


Figure 6

FOUR **OTHER**

7.

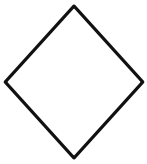


Figure 7

FOUR **OTHER**

8.

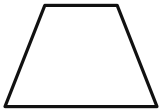


Figure 8

FOUR **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

Write the name of one new shape with exactly 4 straight sides and one new shape without exactly 4 straight sides. Do not use a shape from Part 1.

FOUR _____

OTHER _____

CHALLENGE

Write directions for drawing a shape with 4 straight sides that is not a square. Tell how you know it belongs with FOUR.

ANSWER KEY

Count the Sides

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (rectangle)	**FOUR**	A rectangle has exactly 4 straight sides.
2	Figure 2 (square)	**FOUR**	A square has exactly 4 straight sides.
3	Figure 3 (circle)	**OTHER**	A circle has no straight sides.
4	Figure 4 (parallelogram)	**FOUR**	A parallelogram has exactly 4 straight sides.
5	Figure 5 (triangle)	**OTHER**	A triangle has 3 straight sides.
6	Figure 6 (pentagon)	**OTHER**	A pentagon has 5 straight sides.
7	Figure 7 (rhombus)	**FOUR**	A rhombus has exactly 4 straight sides.
8	Figure 8 (trapezoid)	**FOUR**	A trapezoid has exactly 4 straight 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)

- **FOUR**: Kite
- **OTHER**: Hexagon

Challenge: Draw a long rectangle with two long sides and two short sides. It belongs with FOUR because it has 4 straight sides.

For PROVE IT, accept any two item numbers with correct side counts or an explanation that a curved edge is not a straight side. For Part 3, accept other correctly named shapes that are not shown in Part 1.