Side Count Sort

Sort shapes by how many straight sides they have.

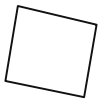
CCSS.Math.Content.2.G.A "Reason with shapes and their attributes."

NAME _____ DATE _____

HAS 4 SIDES

Count the straight sides. Choose this group when a shape has exactly 4 straight sides.

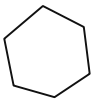
This example shape has 4 straight sides.



NOT 4 SIDES

Count the straight sides. Choose this group when a shape has fewer or more than 4 straight sides.

This example shape has 6 straight sides.



1 SORT

8 items

Circle the category for each figure, then choose two figures and write how you counted their straight sides.

1.

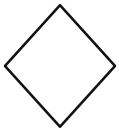


Figure 1

FOUR SIDES | NOT FOUR

2.



Figure 2

FOUR SIDES | NOT FOUR

3.

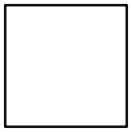


Figure 3

FOUR SIDES | NOT FOUR

4.

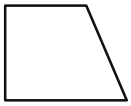


Figure 4

FOUR SIDES | NOT FOUR

5.

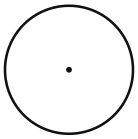


Figure 5

FOUR SIDES | NOT FOUR

6.

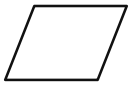


Figure 6

FOUR SIDES | NOT FOUR

7.

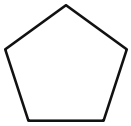


Figure 7

FOUR SIDES | NOT FOUR

8.

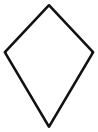


Figure 8

FOUR SIDES | NOT FOUR

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 one new example of a shape with 4 straight sides and one new example of a shape that does not have 4 straight sides.

FOUR SIDES _____

NOT FOUR _____

CHALLENGE

Draw two different shapes that each have 4 straight sides. Write one way they are alike.

ANSWER KEY

Side Count Sort

GRADE 2 · 2.G.A

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (rhombus)	**FOUR SIDES**	A rhombus has 4 straight sides.
2	Figure 2 (triangle)	**NOT FOUR**	A triangle has 3 straight sides.
3	Figure 3 (square)	**FOUR SIDES**	A square has 4 straight sides.
4	Figure 4 (right_trapezoid)	**FOUR SIDES**	A right trapezoid has 4 straight sides.
5	Figure 5 (circle)	**NOT FOUR**	A circle has no straight sides.
6	Figure 6 (parallelogram)	**FOUR SIDES**	A parallelogram has 4 straight sides.
7	Figure 7 (pentagon)	**NOT FOUR**	A pentagon has 5 straight sides.
8	Figure 8 (kite)	**FOUR SIDES**	A kite has 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 SIDES**: A shape with 4 straight sides, such as a square.
- **NOT FOUR**: A shape with 6 straight sides, such as a hexagon.

Challenge: I drew a square and a trapezoid. Both have 4 straight sides.

Answers: 1 FOUR SIDES, 2 NOT FOUR, 3 FOUR SIDES, 4 FOUR SIDES, 5 NOT FOUR, 6 FOUR SIDES, 7 NOT FOUR, 8 FOUR SIDES. For the proof, students should explain that they counted the shape's straight sides.