Side Count Sort

Count the straight sides to sort each polygon.

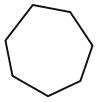
3.MG.4.e "Classify and compare polygons (triangles, quadrilaterals, pentagons, hexagons, octagons)."

NAME _____ DATE _____

FIVE OR MORE SIDES

Count the straight sides. A polygon with 5 or more sides belongs in MORE.

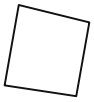
A polygon with 7 straight sides is in MORE.



FOUR OR FEWER SIDES

Count the straight sides. A polygon with 4 or fewer sides belongs in FEWER.

A polygon with 4 straight sides is in FEWER.



1 SORT

8 items

For each figure, circle MORE or FEWER, then in Part 2 choose two figures and tell how many sides each has and why it fits its group.

1.

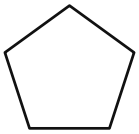


Figure 1

MORE FEWER

2.



Figure 2

MORE FEWER

3.

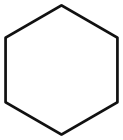


Figure 3

MORE FEWER

4.

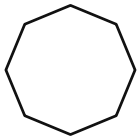


Figure 4

MORE FEWER

5.

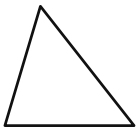


Figure 5

MORE FEWER

6.

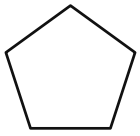


Figure 6

MORE FEWER

7.

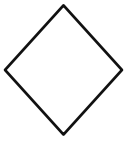


Figure 7

MORE FEWER

8.

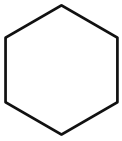


Figure 8

MORE FEWER

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 for MORE and one new example for FEWER.

MORE _____

FEWER _____

CHALLENGE

Draw an octagon. Draw a line from one corner to the third corner from it. Label each new shape MORE or FEWER.

ANSWER KEY # Side Count Sort

GRADE 3 · 3.MG.4.e

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (pentagon)	**MORE**	A pentagon has 5 sides.
2	Figure 2 (rectangle)	**FEWER**	A rectangle has 4 sides.
3	Figure 3 (hexagon)	**MORE**	A hexagon has 6 sides.
4	Figure 4 (octagon)	**MORE**	An octagon has 8 sides.
5	Figure 5 (triangle)	**FEWER**	A triangle has 3 sides.
6	Figure 6 (pentagon)	**MORE**	A pentagon has 5 sides.
7	Figure 7 (rhombus)	**FEWER**	A rhombus has 4 sides.
8	Figure 8 (hexagon)	**MORE**	A hexagon has 6 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)

- **MORE**: a 7-sided polygon
- **FEWER**: a 3-sided polygon

Challenge: The line makes a 4-sided polygon, FEWER, and a 6-sided polygon, MORE.

Items 1, 3, 4, 6, and 8 are MORE. Items 2, 5, and 7 are FEWER. For Part 2, look for a correct side count and matching category.