Shape Side Search

Sort shapes and show how you know.

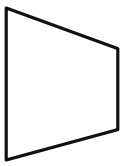
2.GM.1.1 "Recognize regular and irregular trapezoids and hexagons."

NAME _____ DATE _____

TRAPEZOID

A trapezoid has four straight sides. One pair of sides is parallel, so those sides never meet.

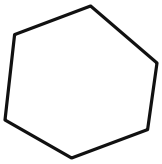
This trapezoid has two parallel sides.



HEXAGON

A hexagon has six straight sides. Its sides can be the same length or different lengths.

This hexagon has six sides.



1 SORT

8 items

Circle FOUR or SIX for each figure, then pick two figures and tell how you know where they belong.

1.

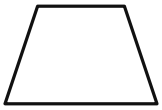


Figure 1

FOUR SIX

2.

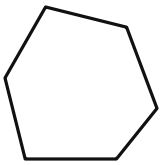


Figure 2

FOUR SIX

3.

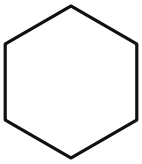


Figure 3

FOUR **SIX**

4.

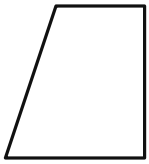


Figure 4

FOUR **SIX**

5.

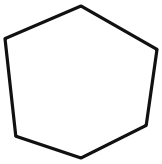


Figure 5

FOUR **SIX**

6.

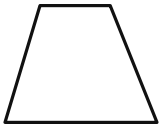


Figure 6

FOUR **SIX**

7.

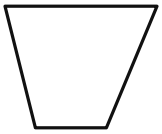


Figure 7

FOUR **SIX**

8.

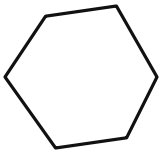


Figure 8

FOUR **SIX**

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

Draw one new trapezoid and one new hexagon that are different from the figures above, and write each shape's name.

FOUR

SIX

CHALLENGE

Draw a hexagon with some sides longer than others, then tell why it is still a hexagon.

ANSWER KEY

Shape Side Search

GRADE 2 · 2.GM.1.1

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (polygon)	**FOUR**	Four sides; the top and bottom sides are parallel.
2	Figure 2 (polygon)	**SIX**	Six sides of different lengths.
3	Figure 3 (polygon)	**SIX**	Six equal sides form a regular hexagon.
4	Figure 4 (polygon)	**FOUR**	Four sides; the top and bottom sides are parallel.
5	Figure 5 (polygon)	**SIX**	Six sides form a hexagon.
6	Figure 6 (polygon)	**FOUR**	Four sides; the top and bottom sides are parallel.
7	Figure 7 (polygon)	**FOUR**	Four sides; the top and bottom sides are parallel.
8	Figure 8 (polygon)	**SIX**	Six sides of different lengths.

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**: A trapezoid with two vertical parallel sides, a level top, and a slanted bottom. Label it trapezoid.
- **SIX**: A hexagon with a short top side, a long bottom side, and four slanted sides. Label it hexagon.

Challenge: Draw a shape with six straight sides, with some sides longer than others. It is a hexagon because it has six sides.

For Part 2, accept two explanations that use side counts and, for any trapezoid chosen, identify its parallel sides. For Part 3, check that each new drawing has the stated number of sides and that the trapezoid has one pair of parallel sides.