

Four Side Search

Sort figures by their number of sides.

MA.2.GR.1.1 "Identify and draw two-dimensional figures based on their defining attributes. Figures are limited to triangles, rectangles, squares, pentagons, hexagons and octagons."

NAME _____

DATE _____

EXACTLY 4 SIDES

A figure belongs here when it has exactly 4 straight sides. Count each side once.

A picture-frame outline has 4 straight sides.

NOT EXACTLY 4 SIDES

A figure belongs here when it does not have exactly 4 straight sides. It may have fewer or more sides.

A three-sided sail outline does not have 4 sides.

1 SORT _____ 8 items

For SORT, circle the category for each figure; for PROVE IT, choose two numbered items and explain how counting the sides helped you sort them.

1. A square

FOUR SIDES

OTHER

2. A pentagon

FOUR SIDES

OTHER

3. A hexagon

FOUR SIDES

OTHER

4. A rectangle

FOUR SIDES

OTHER

5. A figure with 4 equal sides and 4 square corners

FOUR SIDES

OTHER

6. A figure with 4 corners, and each corner is a square corner

FOUR SIDES

OTHER

7. An octagon

FOUR SIDES

OTHER

8. A triangle

FOUR SIDES

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 one new example for FOUR SIDES and one new example for OTHER. Do not copy an item above.

FOUR SIDES _____

OTHER _____

CHALLENGE

Draw two figures, one with 4 sides and one with 6 sides. Label the number of sides on each drawing.

PART 1 • SORT

#	ITEM	CATEGORY	WHY
1	A square	FOUR SIDES	A square has exactly 4 sides.
2	A pentagon	OTHER	A pentagon has 5 sides.
3	A hexagon	OTHER	A hexagon has 6 sides.
4	A rectangle	FOUR SIDES	A rectangle has exactly 4 sides.
5	A figure with 4 equal sides and 4 square corners	FOUR SIDES	This describes a square, which has 4 sides.
6	A figure with 4 corners, and each corner is a square corner	FOUR SIDES	A figure with 4 corners has 4 sides.
7	An octagon	OTHER	An octagon has 8 sides.
8	A triangle	OTHER	A triangle has 3 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 four-sided playing-card outline.
- **OTHER:** An 8-sided stop-sign outline.

Challenge: A square labeled 4, and a hexagon labeled 6.

For PROVE IT, accept explanations that state the number of sides and connect it to exactly 4 sides or not 4 sides. Part 3 and challenge drawings may vary if the side counts are correct.