

Side Shape Sort

Sort shapes by their sides.

3.6 "Geometry and measurement. The student applies mathematical process standards to analyze attributes of two-dimensional geometric figures to develop generalizations about their properties..."

NAME _____

DATE _____

QUADRILATERAL

A quadrilateral is a closed shape with exactly four straight sides and four corners.

A rectangle is a quadrilateral.



NOT A QUADRILATERAL

A shape that does not have exactly four straight sides is not a quadrilateral.

A triangle is not a quadrilateral.



1 SORT

8 items

For Part 1, circle FOUR SIDES or OTHER for each figure, then for Part 2, choose two figures and explain how you know where each belongs.

1.

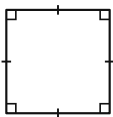


Figure 1

FOUR SIDES

OTHER

2.

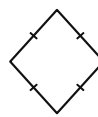


Figure 2

FOUR SIDES

OTHER

3.

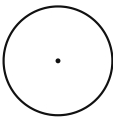


Figure 3

FOUR SIDES

OTHER

4.



Figure 4

FOUR SIDES

OTHER

5.



Figure 5

FOUR SIDES

OTHER

6.

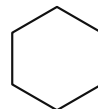


Figure 6

FOUR SIDES

OTHER

7.

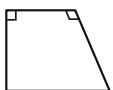


Figure 7

FOUR SIDES

OTHER

8.

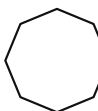


Figure 8

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

For Part 3, draw one new shape for FOUR SIDES and one new shape for OTHER.

FOUR SIDES

OTHER

CHALLENGE

Draw a quadrilateral that is not a square, rectangle, rhombus, parallelogram, or trapezoid.

PART 1 • SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (square)	FOUR SIDES	A square has four straight sides and four corners.
2	Figure 2 (rhombus)	FOUR SIDES	A rhombus has four straight sides and four corners.
3	Figure 3 (circle)	OTHER	A circle has no straight sides and no corners.
4	Figure 4 (parallelogram)	FOUR SIDES	A parallelogram has four straight sides and four corners.
5	Figure 5 (trapezoid)	FOUR SIDES	A trapezoid has four straight sides and four corners.
6	Figure 6 (hexagon)	OTHER	A hexagon has six straight sides.
7	Figure 7 (right trapezoid)	FOUR SIDES	A right trapezoid has four straight sides and four corners.
8	Figure 8 (octagon)	OTHER	An octagon has eight 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 kite
- **OTHER:** a semicircle

Challenge: An arrowhead-shaped concave quadrilateral with four straight sides.

For Part 2, accept explanations that count four straight sides and four corners for a quadrilateral, or identify a different number of sides or a curved edge for OTHER. The challenge has more than one correct drawing, as long as it is a quadrilateral outside the listed subcategories.