

Side Detective Sort

Sort shapes by their straight sides.

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

NAME _____

DATE _____

4 STRAIGHT SIDES

These shapes have exactly 4 straight sides.

A four-sided garden plot belongs here.

NOT 4 STRAIGHT SIDES

These shapes do not have exactly 4 straight sides. They may have curved edges or a different number of sides.

A round coin belongs here.

1 SORT _____ 8 items

For each item, circle FOUR SIDES or OTHER.

1. a triangle

FOUR SIDES

OTHER

2. a square tile

FOUR SIDES

OTHER

3. a rectangular book cover

FOUR SIDES

OTHER

4. a circle

FOUR SIDES

OTHER

5. a diamond-shaped sign with 4 straight sides

FOUR SIDES

OTHER

6. a pentagon

FOUR SIDES

OTHER

7. a hexagon

FOUR SIDES

OTHER

8. a picture frame with 4 straight outer sides

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

Part 2, PROVE IT: Pick two items, one from each category. Explain how you knew by telling the number of straight sides.

Part 3, MAKE YOUR OWN: Write one new example for FOUR SIDES and one new example for OTHER.

FOUR SIDES _____

OTHER _____

CHALLENGE

Draw a four-sided shape that is not a square. Label all 4 sides and circle its category.

PART 1 • SORT

#	ITEM	CATEGORY	WHY
1	a triangle	OTHER	A triangle has 3 straight sides.
2	a square tile	FOUR SIDES	A square has 4 straight sides.
3	a rectangular book cover	FOUR SIDES	A rectangle has 4 straight sides.
4	a circle	OTHER	A circle has no straight sides.
5	a diamond-shaped sign with 4 straight sides	FOUR SIDES	It has exactly 4 straight sides.
6	a pentagon	OTHER	A pentagon has 5 straight sides.
7	a hexagon	OTHER	A hexagon has 6 straight sides.
8	a picture frame with 4 straight outer sides	FOUR SIDES	Its outer shape has exactly 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 four-sided window.
- **OTHER:** An oval mirror.

Challenge: A long rectangle, not a square, with its 4 sides labeled 1, 2, 3, and 4. Circle FOUR SIDES.

For Part 2, look for one item from each category and a correct explanation using straight-side counts. Accept new 2D shape examples that fit the category.