# Share Spotter

Sort rectangles by their equal shares.

**MT.2.G.3** "Partition circles and rectangles into equal shares, recognize that equal shares need not have the same shape, and express the shares in two-halves, three-thirds, and four-fourths."

NAME _____ DATE _____

### HALVES

A whole split into two equal shares has two halves. Each share is one half.

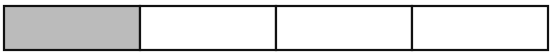
This snack bar has two equal shares.



### FOURTHS

A whole split into four equal shares has four fourths. Each share is one fourth.

This paper strip has four equal shares.



## 1 SORT

8 items

Circle HALVES or FOURTHS for each figure, then pick two figures and explain how you know where each belongs.

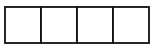
**1.** 

Figure 1

HALVES FOURTHS

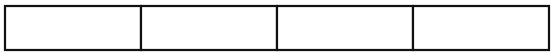
**2.** 

Figure 2

HALVES FOURTHS

**3.** 

Figure 3

HALVES FOURTHS

**4.** 

Figure 4

HALVES FOURTHS

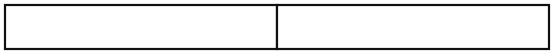
**5.** 

Figure 5

**HALVES** **FOURTHS**

**6.** 

Figure 6

**HALVES** **FOURTHS**

**7.** 

Figure 7

**HALVES** **FOURTHS**

**8.** 

Figure 8

**HALVES** **FOURTHS**

## 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 example of HALVES and one new example of FOURTHS, and label the shares.

**HALVES**

**FOURTHS**

**CHALLENGE**

Draw a rectangle with four equal shares that do not all have the same shape, and label each share one fourth.

**ANSWER KEY** # Share Spotter



## PART 1 · SORT

| # | ITEM | CATEGORY | WHY |
|---|---|---|---|
| 1 | Figure 1 (array) | **FOURTHS** | The rectangle has four equal shares. |
| 2 | Figure 2 (fractionbars) | **FOURTHS** | The bar has four equal shares. |
| 3 | Figure 3 (array) | **HALVES** | The rectangle has two equal shares. |
| 4 | Figure 4 (array) | **FOURTHS** | The rectangle has four equal shares. |
| 5 | Figure 5 (fractionbars) | **HALVES** | The bar has two equal shares. |
| 6 | Figure 6 (array) | **HALVES** | The rectangle has two equal shares. |
| 7 | Figure 7 (fractionbars) | **FOURTHS** | The bar has four equal shares, even though three are shaded. |
| 8 | Figure 8 (fractionbars) | **HALVES** | The bar has two equal shares, even though both are shaded. |

## 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)

- **HALVES**: A circle split through its center into two equal shares, each labeled one half.
- **FOURTHS**: A circle split by two lines that cross at its center at right angles, making four equal shares, each labeled one fourth.

**Challenge:** Split a rectangle into equal left and right halves. Split the left half across its middle to make two rectangles. Split the right half from corner to corner to make two triangles. Label each of the four shares one fourth.

For PROVE IT, a student might say that Figure 1 has four equal shares, so it shows fourths, while Figure 3 has two equal shares, so it shows halves. Shading does not change the number of shares.