Tile Area Sort

Count square units to compare areas.

3.GR.C.6 "Identify area as an attribute of a two-dimensional figure and measure area of rectangular space by counting square units (non-standard equal-sized units, square centimeters, square meters, square inches, square feet)."

NAME _____ DATE _____

10 OR MORE SQUARE UNITS

Count the equal squares that cover the rectangle. If you count 10 or more, its area belongs here.

This rectangle has 14 square units.



FEWER THAN 10 SQUARE UNITS

Count the equal squares that cover the rectangle. If you count fewer than 10, its area belongs here.

This rectangle has 4 square units.



1 SORT

8 items

Circle LARGE or SMALL for each figure, then choose two figures for PROVE IT and explain how you counted their square units.

1. 

Figure 1

LARGE SMALL

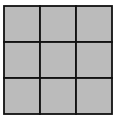
2. 

Figure 2

LARGE SMALL

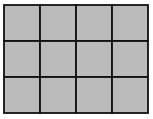
3. 

Figure 3

LARGE SMALL

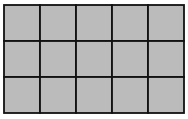
4. 

Figure 4

LARGE SMALL

5. 

Figure 5

LARGE SMALL

6. 

Figure 6

LARGE SMALL

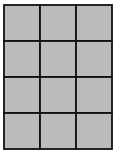
7. 

Figure 7

LARGE SMALL

8. 

Figure 8

LARGE SMALL

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 MAKE YOUR OWN, write one new rectangle example for each category without repeating a figure from Part 1. Give its number of rows, squares in each row, and area in square units.

LARGE _____

SMALL _____

CHALLENGE

A rectangle has 5 rows of equal squares and an area of 20 square units. How many squares are in each row? Explain.

ANSWER KEY

Tile Area Sort

GRADE 3 · 3.GR.C.6

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (array)	**LARGE**	The area is 10 square units.
2	Figure 2 (array)	**SMALL**	The area is 9 square units.
3	Figure 3 (array)	**LARGE**	The area is 12 square units.
4	Figure 4 (array)	**LARGE**	The area is 15 square units.
5	Figure 5 (array)	**SMALL**	The area is 8 square units.
6	Figure 6 (array)	**SMALL**	The area is 6 square units.
7	Figure 7 (array)	**LARGE**	The area is 12 square units.
8	Figure 8 (array)	**SMALL**	The area is 7 square units.

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)

- **LARGE**: 2 rows of 6 equal squares; area = 12 square units.
- **SMALL**: 1 row of 5 equal squares; area = 5 square units.

Challenge: There are 4 squares in each row because 4 + 4 + 4 + 4 + 4 = 20 square units.

For PROVE IT, accept any two figures with correct square counts and category explanations. Students may count squares one by one or by rows.