

Square Count Check

Count the squares in rows and columns.

NY-2.G.2 "Partition a rectangle into rows and columns of same-size squares and count to find the total number of them."

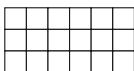
NAME _____

DATE _____

RIGHT TOTAL

Choose RIGHT when the total matches all the same-size squares in the rows and columns.

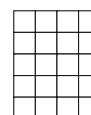
3 rows and 6 columns have a total of 18 squares.



WRONG TOTAL

Choose WRONG when the total does not match all the same-size squares in the rows and columns.

5 rows and 4 columns do not have a total of 18 squares.



1 SORT

8 items

Look at each rectangle, count its squares, and circle RIGHT or WRONG for the total shown.

1.

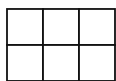


Figure 1. Total: 6

RIGHT

WRONG

2.



Figure 2. Total: 8

RIGHT

WRONG

3.

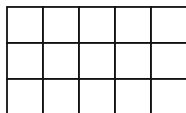


Figure 3. Total: 12

RIGHT

WRONG

4.



Figure 4. Total: 12

RIGHT

WRONG

5.

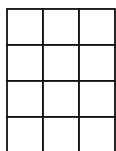


Figure 5. Total: 10

RIGHT

WRONG

6.

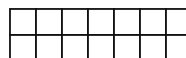


Figure 6. Total: 15

RIGHT

WRONG

7.

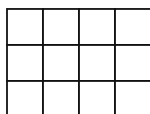


Figure 7. Total: 12

RIGHT

WRONG

8.

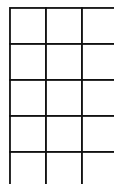


Figure 8. Total: 15

RIGHT

WRONG

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 rectangle of same-size squares with a RIGHT total and one with a WRONG total. Write the total beside each drawing.

RIGHT _____

WRONG _____

CHALLENGE

Draw a rectangle with 4 rows and 5 columns of same-size squares. Write its total.

PART 1 • SORT

#	ITEM	CATEGORY	WHY
1	Figure 1. Total: 6 (array)	RIGHT	2 rows of 3 squares make 6 squares.
2	Figure 2. Total: 8 (array)	RIGHT	4 rows of 2 squares make 8 squares.
3	Figure 3. Total: 12 (array)	WRONG	3 rows of 5 squares make 15 squares, not 12.
4	Figure 4. Total: 12 (array)	RIGHT	6 rows of 2 squares make 12 squares.
5	Figure 5. Total: 10 (array)	WRONG	4 rows of 3 squares make 12 squares, not 10.
6	Figure 6. Total: 15 (array)	WRONG	2 rows of 7 squares make 14 squares, not 15.
7	Figure 7. Total: 12 (array)	RIGHT	3 rows of 4 squares make 12 squares.
8	Figure 8. Total: 15 (array)	RIGHT	5 rows of 3 squares make 15 squares.

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)

- **RIGHT:** 2 rows and 8 columns, total 16.
- **WRONG:** 5 rows and 5 columns, total 22.

Challenge: A drawing with 4 rows of 5 squares has a total of 20 squares.

Accept drawings with equal-size square rows and columns. For Part 3, accept any new correct total for RIGHT and any incorrect total for WRONG.