LESSON MAKER PRO

Square Count Quest

Count equal squares in rows and columns.

GRADE 2 · 2.G.A.2

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

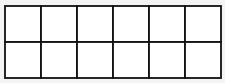
NAME _____ DATE _____

COUNT THE SQUARES

A rectangle can be split into equal squares. Count the squares in one row, then count the rows. Add the equal rows to find the total number of squares.

WORKED EXAMPLE

Look at the button board. How many same-size squares are on it?

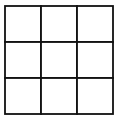


1. There are 6 squares in each row.
2. There are 2 rows.
3. 6 + 6 = 12.

Answer: 12 squares

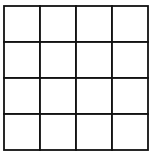
PRACTICE 5 problems

1 Look at the game-board rectangle. How many same-size squares are on it?



ANSWER _____

2 Look at the sticker-sheet rectangle. How many same-size squares are on it?



ANSWER _____

3 A pet bed mat has 3 rows of 5 same-size square patches. How many patches are on the mat?

ANSWER _____

4 A snack tray has 5 rows of 5 same-size square spaces. How many spaces are on the tray?

ANSWER _____

5 A classroom calendar has 4 rows of 7 same-size square boxes. How many boxes are on the calendar?

ANSWER _____

APPLY IT Show your work

1 Ava puts trading cards in a rectangle with 3 rows. Each row has 7 cards. How many cards does Ava put down?

WORK SPACE

ANSWER _____

2 At the art table, a paint palette has 5 rows of 4 square spaces. How many paint spaces are on the palette?

WORK SPACE

ANSWER _____

3 Adult: provide a blank paper rectangle 6 cm wide and 4 cm tall, plus a centimeter ruler. The printed outline is a shape reference. On your paper rectangle, mark each edge every 2 cm. Connect matching marks with a straightedge to make 2 rows and 3 columns of same-size squares. You draw the partition lines. Count the squares and show repeated addition.



ANSWER _____

CHALLENGE One step up

A robot game board has 7 rows of 5 same-size squares. Mia says it has 30 squares. Is Mia correct? Write the total and show repeated addition to explain.

WORK SPACE AND ANSWER

ANSWER KEY

Square Count Quest

GRADE 2 · 2.G.A.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Look at the game-board rectangle. How many same-size squares are on it?	**9 squares**
2	Look at the sticker-sheet rectangle. How many same-size squares are on it?	**16 squares**
3	A pet bed mat has 3 rows of 5 same-size square patches. How many patches are on the mat?	**15 patches**
4	A snack tray has 5 rows of 5 same-size square spaces. How many spaces are on the tray?	**25 spaces**
5	A classroom calendar has 4 rows of 7 same-size square boxes. How many boxes are on the calendar?	**28 boxes**

PART 2 · APPLY IT

1. **21 cards** Count 7 cards in each of 3 rows. 7 + 7 + 7 = 21.
2. **20 paint spaces** Count 4 spaces in each of 5 rows. 4 + 4 + 4 + 4 + 4 = 20.
3. **6 squares; 3 + 3 = 6.** Check one horizontal line halfway up and two vertical lines at thirds, all reaching the edges. Each square is 2 cm by 2 cm. There are 2 rows of 3 squares, so 3 + 3 = 6. Check actual learner partitioning on the prepared rectangle, not only the count.

CHALLENGE

No. 5 + 5 + 5 + 5 + 5 + 5 + 5 = 35 squares.

Accept correct totals with the matching object name or just the number. For the challenge, accept any clear repeated-addition explanation that totals 35. For Apply 3, require an actual complete rectangle partition into 2 rows and 3 columns of equal squares, plus the count. Accept small drawing inaccuracies when equal spacing and square intent are clear.

Square Count Quest

Apply 3: two rows of three equal squares; 6 squares total.

