

# Partitioning Rectangles into Rows and Columns

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 24

## Q Quick Review

We can split a rectangle into equal-size squares. The squares line up in **rows** (going across) and **columns** (going up and down). To find how many squares there are in all, you can **count them** or you can **skip-count** the rows. If a rectangle has 3 rows with 4 squares in each row, you skip-count 4, 8, 12 to get 12 squares. This is the same as  $3 + 4 + 4 + 4$  or 3 groups of 4. Equal rows and equal columns make counting fast and fair!

◇ **Example:** A rectangle is split into 2 rows with 5 squares in each row. How many squares are there in all?  
 ⇒ Each row has the same number of squares, which makes this easy. There are 2 rows, and each row has 5 squares. Let's skip-count the rows: row one has 5, and row two brings us to 10. We can also add:  $5 + 5 = 10$ . So the rectangle is made of 10 equal squares in all.

**Answer:** 10 squares

## PRACTICE

Find the number of squares, rows, or columns as asked.

- A rectangle has 2 rows of 3 squares. How many squares in all? \_\_\_\_\_
- A rectangle has 3 rows of 3 squares. How many squares in all? \_\_\_\_\_
- A rectangle has 2 rows of 4 squares. How many squares in all? \_\_\_\_\_
- A rectangle has 4 rows of 2 squares. How many squares in all? \_\_\_\_\_
- A rectangle has 3 rows of 4 squares. How many squares in all? \_\_\_\_\_
- A rectangle has 5 rows of 2 squares. How many squares in all? \_\_\_\_\_
- A rectangle has 2 rows of 6 squares. How many squares in all? \_\_\_\_\_
- A rectangle has 4 rows of 3 squares. How many squares in all? \_\_\_\_\_
- A rectangle has 3 rows of 5 squares. How many squares in all? \_\_\_\_\_
- A rectangle has 5 rows of 4 squares. How many squares in all? \_\_\_\_\_
- A rectangle has 4 rows of 4 squares. How many squares in all? \_\_\_\_\_
- A rectangle has 6 rows of 2 squares. How many squares in all? \_\_\_\_\_
- A rectangle has 12 squares in 3 equal rows. How many in each row? \_\_\_\_\_
- A rectangle has 10 squares in 2 equal rows. How many in each row? \_\_\_\_\_
- A rectangle has 8 squares in 4 equal columns. How many in each column? \_\_\_\_\_
- A rectangle has 3 rows. Each row has the same squares as the others. The rows are \_\_\_\_\_. \_\_\_\_\_
- A rectangle has 9 squares in 3 equal rows. How many in each row? \_\_\_\_\_
- Squares that go across in a rectangle make a \_\_\_\_\_. \_\_\_\_\_
- Squares that go up and down in a rectangle make a \_\_\_\_\_. \_\_\_\_\_
- A rectangle has 2 rows of 5 and 1 more row of 5. How many squares in all? \_\_\_\_\_

## ◆ Word Problems

- Sofia is making a chocolate bar. She breaks it into 3 rows with 4 pieces in each row. How many pieces of chocolate does she have in all? \_\_\_\_\_
- Mr. Lee sets up chairs in the gym. He puts them in 5 rows with 4 chairs in each row. How many chairs are there in all? \_\_\_\_\_



23. Emma planted 12 flowers in a garden box. She wants them in 2 equal rows. How many flowers should go in each row?

\_\_\_\_\_

24. Jack drew a grid with 4 rows and 3 columns of squares. He colored every square blue. How many blue squares did he make?

\_\_\_\_\_



## Answer Keys

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. <input type="text" value="6"/></li> <li>2. <input type="text" value="9"/></li> <li>3. <input type="text" value="8"/></li> <li>4. <input type="text" value="8"/></li> <li>5. <input type="text" value="12"/></li> <li>6. <input type="text" value="10"/></li> <li>7. <input type="text" value="12"/></li> <li>8. <input type="text" value="12"/></li> <li>9. <input type="text" value="15"/></li> <li>10. <input type="text" value="20"/></li> <li>11. <input type="text" value="16"/></li> <li>12. <input type="text" value="12"/></li> </ol> | <ol style="list-style-type: none"> <li>13. <input type="text" value="4"/></li> <li>14. <input type="text" value="5"/></li> <li>15. <input type="text" value="2"/></li> <li>16. <input type="text" value="equal"/></li> <li>17. <input type="text" value="3"/></li> <li>18. <input type="text" value="row"/></li> <li>19. <input type="text" value="column"/></li> <li>20. <input type="text" value="15"/></li> <li>21. <input type="text" value="12 pieces"/></li> <li>22. <input type="text" value="20 chairs"/></li> <li>23. <input type="text" value="6 flowers"/></li> <li>24. <input type="text" value="12 squares"/></li> </ol> |
|---|---|

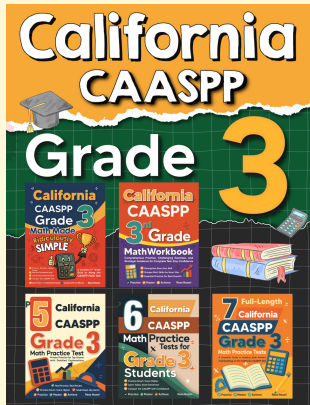
### Step-by-Step Explanations

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. Add the rows: <math>3 + 3 = 6</math> squares.</li> <li>2. Skip-count by 3: 3, 6, 9, so there are 9 squares.</li> <li>3. Add the two rows: <math>4 + 4 = 8</math> squares.</li> <li>4. Skip-count by 2: 2, 4, 6, 8, so there are 8 squares.</li> <li>5. Skip-count by 4: 4, 8, 12, so there are 12 squares.</li> <li>6. Skip-count by 2 five times: 2, 4, 6, 8, 10.</li> <li>7. Add the two rows: <math>6 + 6 = 12</math> squares.</li> <li>8. Skip-count by 3: 3, 6, 9, 12, so there are 12 squares.</li> <li>9. Skip-count by 5: 5, 10, 15, so there are 15 squares.</li> <li>10. Skip-count by 4: 4, 8, 12, 16, 20.</li> <li>11. Skip-count by 4: 4, 8, 12, 16, so there are 16 squares.</li> <li>12. Skip-count by 2: 2, 4, 6, 8, 10, 12.</li> </ol> | <ol style="list-style-type: none"> <li>13. Share 12 squares into 3 rows: <math>12 \div 3 = 4</math> in each row.</li> <li>14. Share 10 squares into 2 rows: <math>10 \div 2 = 5</math> in each row.</li> <li>15. Share 8 squares into 4 columns: <math>8 \div 4 = 2</math> in each column.</li> <li>16. When rows have the same number of squares, the rows are equal.</li> <li>17. Share 9 squares into 3 rows: <math>9 \div 3 = 3</math> in each row.</li> <li>18. Squares lined up across the rectangle form a row.</li> <li>19. Squares lined up up-and-down form a column.</li> <li>20. That is 3 rows of 5: <math>5 + 5 + 5 = 15</math> squares.</li> <li>21. There are 3 equal rows of 4. Skip-count by 4: 4, 8, 12. Sofia has 12 pieces.</li> <li>22. There are 5 equal rows of 4 chairs. Skip-count by 4: 4, 8, 12, 16, 20 chairs.</li> <li>23. Share 12 flowers equally into 2 rows: <math>12 \div 2 = 6</math> flowers in each row.</li> <li>24. With 4 rows of 3 squares, skip-count by 3: 3, 6, 9, 12. He colored 12 squares blue.</li> </ol> |
|---|--|



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