

# Rectangular Arrays

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

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

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

## Q Quick Review

An **array** is a group of objects arranged in equal **rows** and equal **columns**, like a tidy rectangle. A **row** goes across, left to right. A **column** goes up and down. In an array, every row has the **same** number of objects, and every column has the same number too. We describe an array by saying “rows of columns,” for example 3 rows of 4. Arrays make it easy to count equal groups.

◇ **Example:** An array has 3 rows with 4 stars in each row. How many rows and how many columns does it have?

⇒ The number of **rows** is given: there are 3 rows. Each row has 4 stars, and the number of objects in a row tells us the number of **columns**. So this array has 3 rows and 4 columns. We can read it as 3 rows of 4.

**Answer:** 3 rows and 4 columns

## PRACTICE

Answer each question about rows and columns in arrays.

- An array has 2 rows of 5. How many rows? \_\_\_\_\_
- An array has 2 rows of 5. How many columns? \_\_\_\_\_
- An array has 4 rows of 3. How many rows? \_\_\_\_\_
- An array has 4 rows of 3. How many columns? \_\_\_\_\_
- An array has 5 rows of 2. How many rows? \_\_\_\_\_
- An array has 5 rows of 2. How many columns? \_\_\_\_\_
- An array has 3 rows of 6. How many columns? \_\_\_\_\_
- An array has 6 rows of 1. How many rows? \_\_\_\_\_
- An array has 1 row of 7. How many columns? \_\_\_\_\_
- An array has 4 rows of 4. How many rows? \_\_\_\_\_
- An array has 4 rows of 4. How many columns? \_\_\_\_\_
- A row of an array goes across or up-down? \_\_\_\_\_
- A column of an array goes across or up-down? \_\_\_\_\_
- An array has 3 rows of 5. How many rows? \_\_\_\_\_
- An array has 3 rows of 5. How many columns? \_\_\_\_\_
- An array has 2 rows of 8. How many columns? \_\_\_\_\_
- An array has 5 rows of 5. How many rows? \_\_\_\_\_
- In an array, does every row have the same number? \_\_\_\_\_
- An array has 6 rows of 3. How many columns? \_\_\_\_\_
- An array has 1 row of 9. How many rows? \_\_\_\_\_

## ◆ Word Problems

- A class sets up chairs in 4 rows. Each row has 5 chairs. How many columns of chairs are there? \_\_\_\_\_
- A baking tray holds muffins in 3 rows and 6 columns. Describe the array as “rows of columns.” \_\_\_\_\_
- Tom arranges his toy cars in 2 rows with 7 cars in each row. How many rows and columns does his array have? \_\_\_\_\_
- A garden has flowers planted in 5 equal rows. Each row has the same number of flowers. Does each row have the same count? \_\_\_\_\_



## Answer Keys

- |   |   |
|---|---|
| <p>1. <input type="text" value="2"/></p> <p>2. <input type="text" value="5"/></p> <p>3. <input type="text" value="4"/></p> <p>4. <input type="text" value="3"/></p> <p>5. <input type="text" value="5"/></p> <p>6. <input type="text" value="2"/></p> <p>7. <input type="text" value="6"/></p> <p>8. <input type="text" value="6"/></p> <p>9. <input type="text" value="7"/></p> <p>10. <input type="text" value="4"/></p> <p>11. <input type="text" value="4"/></p> <p>12. <input type="text" value="across"/></p> | <p>13. <input type="text" value="up – down"/></p> <p>14. <input type="text" value="3"/></p> <p>15. <input type="text" value="5"/></p> <p>16. <input type="text" value="8"/></p> <p>17. <input type="text" value="5"/></p> <p>18. <input type="text" value="yes"/></p> <p>19. <input type="text" value="3"/></p> <p>20. <input type="text" value="1"/></p> <p>21. <input type="text" value="5 columns"/></p> <p>22. <input type="text" value="3 rows of 6"/></p> <p>23. <input type="text" value="2 rows, 7 columns"/></p> <p>24. <input type="text" value="Yes, all rows are equal"/></p> |
|---|---|

### Step-by-Step Explanations

- |   |  |
|---|--|
| <p>1. The phrase “2 rows of 5” says there are 2 rows.</p> <p>2. Each row has 5 objects, so there are 5 columns.</p> <p>3. The phrase “4 rows of 3” says there are 4 rows.</p> <p>4. Each row has 3 objects, so there are 3 columns.</p> <p>5. The phrase “5 rows of 2” says there are 5 rows.</p> <p>6. Each row has 2 objects, so there are 2 columns.</p> <p>7. Each row has 6 objects, so there are 6 columns.</p> <p>8. The phrase “6 rows of 1” says there are 6 rows.</p> <p>9. The single row has 7 objects, so there are 7 columns.</p> <p>10. The phrase “4 rows of 4” says there are 4 rows.</p> <p>11. Each row has 4 objects, so there are 4 columns.</p> <p>12. A row goes across, from left to right.</p> <p>13. A column goes up and down.</p> | <p>14. The phrase “3 rows of 5” says there are 3 rows.</p> <p>15. Each row has 5 objects, so there are 5 columns.</p> <p>16. Each row has 8 objects, so there are 8 columns.</p> <p>17. The phrase “5 rows of 5” says there are 5 rows.</p> <p>18. In an array all rows are equal, so yes.</p> <p>19. Each row has 3 objects, so there are 3 columns.</p> <p>20. The phrase “1 row of 9” says there is 1 row.</p> <p>21. Each row has 5 chairs, and the number of chairs in a row tells the number of columns. So there are 5 columns.</p> <p>22. There are 3 rows and each row has 6 muffins, so the array is 3 rows of 6.</p> <p>23. He has 2 rows, and 7 cars per row means 7 columns. The array is 2 rows and 7 columns.</p> <p>24. In a rectangular array every row has the same number of objects, so each of the 5 rows is equal.</p> |
|---|--|



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