

# Repeated Addition with Arrays

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

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

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

## Q Quick Review

To find the **total** number of objects in an array, you can use **repeated addition**. Since every row has the same number, add that number once for each row. For example, an array with 3 rows of 5 has a total of  $5 + 5 + 5 = 15$ . You can also add by columns — add the number in each column once for every column. Either way, equal groups added together give the same total. Repeated addition is a fast way to count an array.

◇ **Example:** An array has 4 rows of 3. Use repeated addition to find the total.

⇒ There are 4 rows, and each row has 3 objects. So we add 3 once for each row:  $3 + 3 + 3 + 3$ . Let's add step by step:  $3 + 3 = 6$ , then  $6 + 3 = 9$ , then  $9 + 3 = 12$ . The array has 12 objects in all.

**Answer:**  $3 + 3 + 3 + 3 = 12$

## PRACTICE

Use repeated addition to find each array total.

1. An array has 3 rows of 5. How many in all? \_\_\_\_\_
2. An array has 2 rows of 4. How many in all? \_\_\_\_\_
3. An array has 4 rows of 2. How many in all? \_\_\_\_\_
4. An array has 5 rows of 2. How many in all? \_\_\_\_\_
5. An array has 3 rows of 3. How many in all? \_\_\_\_\_
6. An array has 2 rows of 6. How many in all? \_\_\_\_\_
7. An array has 4 rows of 4. How many in all? \_\_\_\_\_
8. An array has 5 rows of 3. How many in all? \_\_\_\_\_
9. An array has 2 rows of 5. How many in all? \_\_\_\_\_
10. An array has 3 rows of 4. How many in all? \_\_\_\_\_
11. An array has 5 rows of 4. How many in all? \_\_\_\_\_
12. An array has 2 rows of 2. How many in all? \_\_\_\_\_
13. An array has 4 rows of 5. How many in all? \_\_\_\_\_
14. An array has 3 rows of 6. How many in all? \_\_\_\_\_
15. An array has 5 rows of 5. How many in all? \_\_\_\_\_
16. Write the repeated addition for 2 rows of 7. \_\_\_\_\_
17. Write the repeated addition for 3 rows of 2. \_\_\_\_\_
18. An array has 4 rows of 3. How many in all? \_\_\_\_\_
19. An array has 2 rows of 8. How many in all? \_\_\_\_\_
20. An array has 5 rows of 1. How many in all? \_\_\_\_\_

## ◆ Word Problems

21. A muffin tray has 3 rows of muffins with 4 muffins in each row. How many muffins are on the tray in all? \_\_\_\_\_
22. Mia plants flowers in 5 rows with 5 flowers in each row. How many flowers did she plant? \_\_\_\_\_
23. A parking lot has 4 rows of cars with 6 cars in each row. How many cars are parked in all? \_\_\_\_\_
24. A window has 2 rows of panes with 3 panes in each row. Use repeated addition to find the total number of panes. \_\_\_\_\_



## Answer Keys

- |                                     |   |
|-------------------------------------|---|
| 1. <input type="text" value="15"/>  | 13. <input type="text" value="20"/>         |
| 2. <input type="text" value="8"/>   | 14. <input type="text" value="18"/>         |
| 3. <input type="text" value="8"/>   | 15. <input type="text" value="25"/>         |
| 4. <input type="text" value="10"/>  | 16. <input type="text" value="7 + 7"/>      |
| 5. <input type="text" value="9"/>   | 17. <input type="text" value="2 + 2 + 2"/>  |
| 6. <input type="text" value="12"/>  | 18. <input type="text" value="12"/>         |
| 7. <input type="text" value="16"/>  | 19. <input type="text" value="16"/>         |
| 8. <input type="text" value="15"/>  | 20. <input type="text" value="5"/>          |
| 9. <input type="text" value="10"/>  | 21. <input type="text" value="12 muffins"/> |
| 10. <input type="text" value="12"/> | 22. <input type="text" value="25 flowers"/> |
| 11. <input type="text" value="20"/> | 23. <input type="text" value="24 cars"/>    |
| 12. <input type="text" value="4"/>  | 24. <input type="text" value="6 panes"/>    |

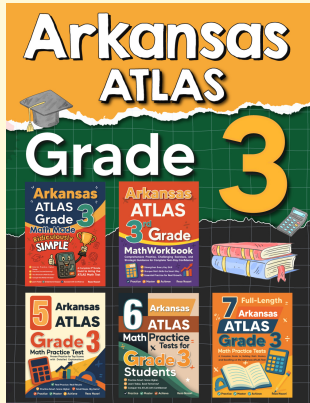
### Step-by-Step Explanations

- |                                    |   |
|------------------------------------|---|
| 1. Add $5 + 5 + 5 = 15$ .          | 13. Add $5 + 5 + 5 + 5 = 20$ .  |
| 2. Add $4 + 4 = 8$ .               | 14. Add $6 + 6 + 6 = 18$ .  |
| 3. Add $2 + 2 + 2 + 2 = 8$ .       | 15. Add $5 + 5 + 5 + 5 + 5 = 25$ .                                    |
| 4. Add $2 + 2 + 2 + 2 + 2 = 10$ .  | 16. Two rows of 7 means $7 + 7$ , which equals 14.                    |
| 5. Add $3 + 3 + 3 = 9$ .           | 17. Three rows of 2 means $2 + 2 + 2$ , which equals 6.               |
| 6. Add $6 + 6 = 12$ .              | 18. Add $3 + 3 + 3 + 3 = 12$ .  |
| 7. Add $4 + 4 + 4 + 4 = 16$ .      | 19. Add $8 + 8 = 16$ .  |
| 8. Add $3 + 3 + 3 + 3 + 3 = 15$ .  | 20. Add $1 + 1 + 1 + 1 + 1 = 5$ .                                     |
| 9. Add $5 + 5 = 10$ .              | 21. Add a 4 for each of the 3 rows: $4 + 4 + 4 = 12$ muffins.         |
| 10. Add $4 + 4 + 4 = 12$ .         | 22. Add a 5 for each of the 5 rows: $5 + 5 + 5 + 5 + 5 = 25$ flowers. |
| 11. Add $4 + 4 + 4 + 4 + 4 = 20$ . | 23. Add a 6 for each of the 4 rows: $6 + 6 + 6 + 6 = 24$ cars.        |
| 12. Add $2 + 2 = 4$ .              | 24. Add a 3 for each of the 2 rows: $3 + 3 = 6$ panes.                |



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