

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. 15
2. 8
3. 8
4. 10
5. 9
6. 12
7. 16
8. 15
9. 10
10. 12
11. 20
12. 4

13. 20
14. 18
15. 25
16. $7 + 7$
17. $2 + 2 + 2$
18. 12
19. 16
20. 5
21. 12 muffins
22. 25 flowers
23. 24 cars
24. 6 panes

Step-by-Step Explanations

1. Add $5 + 5 + 5 = 15$.
2. Add $4 + 4 = 8$.
3. Add $2 + 2 + 2 + 2 = 8$.
4. Add $2 + 2 + 2 + 2 + 2 = 10$.
5. Add $3 + 3 + 3 = 9$.
6. Add $6 + 6 = 12$.
7. Add $4 + 4 + 4 + 4 = 16$.
8. Add $3 + 3 + 3 + 3 + 3 = 15$.
9. Add $5 + 5 = 10$.
10. Add $4 + 4 + 4 = 12$.
11. Add $4 + 4 + 4 + 4 + 4 = 20$.
12. Add $2 + 2 = 4$.

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



Are You Ready for Grade 3 Math?

Get a Head Start with the Connecticut SBAC Grade 3 Math Bundle



Connecticut SBAC Grade 3 Math Bundle

Full practice tests, complete answer keys, and step-by-step explanations

Everything a second grader needs to walk into Grade 3 with confidence!

Scan to open the bundle:



Tests
+ Answer Keys
One Bundle

Important: This bundle combines full practice and clear explanations in one easy-to-print package — built to help a second grader step into Grade 3 math with confidence. **Made for parents, teachers, and tutors who want everything in one place.**

Full Practice Tests

- ✓ Complete SBAC-style Grade 3 practice tests
- ✓ Mirrors the real exam format and difficulty
- ✓ Builds test-taking confidence early
- ✓ Aligned with state Grade 3 math standards

Start with a full-length practice test!

Step-by-Step Answer Keys

- ✓ Every question worked out, not just an answer
- ✓ Friendly, kid-ready explanations
- ✓ Catches and explains common mistakes
- ✓ Parents can help even without a math background

Learn from every mistake!

Skill-Building Worksheets

- ✓ Targets one Grade 3 math skill per page
- ✓ Place value, multiplication, fractions, geometry
- ✓ Quick Review plus practice and word problems
- ✓ Built-in answer key for easy self-checking

Master one skill at a time!