

Grade 2 · Arrays and Equal Groups · Worksheet Answer Key

Common Core 2.OA.C.4 · mathovore.fr

Every solution below shows the repeated addition equation and the total. Some answers include a picture with running totals. Use the key to check work, and ask students to explain whether they added rows or columns.

Grade 2 Common Core: 2.OA.C.4

Problem 1: Count rows and columns

Rows go across. There are **3 rows**. Columns go up and down. There are **4 columns**.

Problem 2: Rows and columns again

There are **5 rows** and **2 columns**. Each row has **2 dots**.

Problem 3: Add the rows

There are 3 rows with 5 dots in each row.

$$5+5+5=15$$

The total is **15 dots**.

Problem 4: Add the columns

There are 3 columns with 4 dots in each column.

$$4+4+4=12$$

The total is **12 dots**.

Problem 5: Two rows of three

2 rows of 3: $3+3=6$.

There are **6 stars**.

Problem 6: Five rows of two

5 rows of 2: $2+2+2+2+2=10$.

Skip count by 2s: 2, 4, 6, 8, 10. The total is **10**.

Problem 7: Finish the addition

$5+5=10$, $10+5=15$, $15+5=20$.

The sum is **20**.

Problem 8: Four by four

4 rows of 4: $4+4+4+4=16$.

There are **16 squares**.

Problem 9: Muffin tin

$2+2+2=6$.

The tin holds **6 muffins**.

Problem 10: Window panes

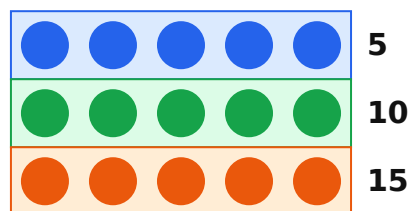
$3+3+3+3=12$.

The window has **12 panes**.

Problem 11: Draw an array

Draw 3 rows with 5 dots in each row. Then add: $5+5+5=15$.

The total is **15**.



A 3 by 5 array with the running totals 5, 10, 15.

Problem 12: Seats in a van

$$2+2+2+2+2=10.$$

The van has **10 seats**.

Problem 13: Same total

Array A has 4 rows of 3: $3+3+3+3=12$.

Array B has 3 rows of 4: $4+4+4=12$.

Both arrays have **12** dots, so the totals are the same.

Problem 14: Sticker rows

$$5+5+5+5=20.$$

There are **20 stickers** on the page.

Problem 15: How many rows?

There are 5 addends, so there are **5 rows**. Each addend is 3, so each row has **3 objects**.

Problem 16: How many in each row?

Try 3 in each row: $3+3+3+3=12$. It works.

Each row has **3 dots**.

Problem 17: Doubles

$4+4=8$. This is a doubles fact: 4 and 4.

The total is **8**.

Problem 18: Sticker sheet

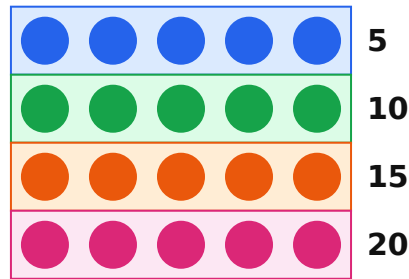
$$5+5+5+5+5=25.$$

Skip count by 5s: 5, 10, 15, 20, 25. The sheet has **25 stickers**.

Problem 19: Garden rows

$$5+5+5+5=20.$$

Priya plants **20 tomato plants**.



The garden array with running totals 5, 10, 15, 20.

Problem 20: Theater seats

Step 1: $5+5+5=15$ seats in all. Step 2: $15-6=9$.

9 seats are empty.

Problem 21: Two cookie trays

Tray 1: $4+4+4=12$. Tray 2: $4+4=8$.

Together: $12+8=20$. There are **20 cookies**.

Problem 22: Find the mistake

There are 4 rows, so there should be 4 addends. Diego used only 3 addends.

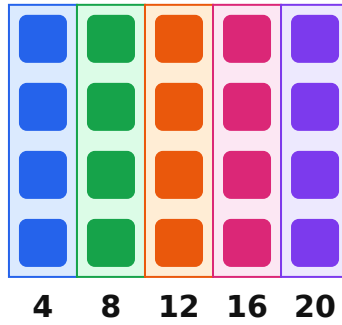
Correct: $5+5+5+5=20$. The total is **20**.

Problem 23: Rows and columns both

Rows: $5+5+5+5=20$.

Columns: there are 5 columns with 4 photos in each column, $4+4+4+4+4=20$.

Both totals are **20**, so they match.



The photo wall with column totals 4, 8, 12, 16, 20.

Problem 24: Buttons

An array with 4 rows of 5 needs $5+5+5+5=20$ buttons.

$20-18=2$. Aisha needs **2 more buttons**.