

Grade 2 · Arrays and Equal Groups · Test Answer Key

Common Core 2.OA.C.4 · mathovore.fr

This answer key shows full solutions and a scoring guide for each of the 9 questions. The test totals 20 points. Give credit when a student adds columns instead of rows, as long as the equation matches the array.

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

Question 1: Rows and columns (2 points)

(a) The array has **3 rows** and **5 columns**.

(b) $5+5+5=15$. There are **15 dots**.

Scoring: 1 point for both numbers correct in part (a). 1 point for the total 15 in part (b).

Question 2: Repeated addition (2 points)

(a) 4 rows of 2: $2+2+2+2=8$.

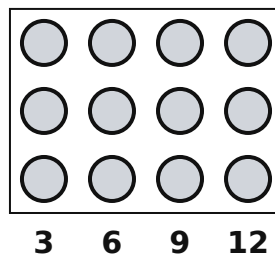
(b) There are **8 dots**.

Scoring: 1 point for a correct repeated addition equation with four addends of 2. 1 point for the total 8.

Question 3: Column equation (2 points)

(a) The array has 4 columns with 3 dots in each column: $3+3+3+3=12$.

(b) There are **12 dots**.



Each column has 3 dots. Column totals: 3, 6, 9, 12.

Scoring: 1 point for an equation with four addends of 3. 1 point for the total 12.

Question 4: Ticket booth seats (2 points)

(a) $4+4+4+4+4=20$.

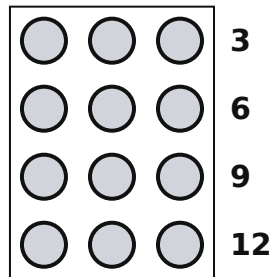
(b) The section has **20 seats**.

Scoring: 1 point for an equation with five addends of 4. 1 point for the total 20.

Question 5: Draw an array (2 points)

(a) The array has 4 rows with 3 dots in each row (see the picture).

(b) $3+3+3+3=12$. The total is **12**.



A correct array: 4 rows of 3.

Scoring: 1 point for an array with 4 equal rows and 3 columns. 1 point for the equation with four addends of 3 and the total 12.

Question 6: Same total (2 points)

(a) Array A has 2 rows of 5: $5+5=10$. Array B has 5 rows of 2: $2+2+2+2+2=10$.

(b) **Yes**. Both totals are 10.

Scoring: 1 point for both equations correct. 1 point for saying the totals are the same (10) with a reason.

Question 7: Missing rows (2 points)

Add 3 until the total is 15: $3+3=6$, $6+3=9$, $9+3=12$, $12+3=15$. That is 5 threes:
 $3+3+3+3+3=15$.

The array has **5 rows**.

Scoring: 1 point for work that shows repeated addition of 3 reaching 15. 1 point for the answer

5.

Question 8: Window wall (3 points)

(a) $5+5+5+5=20$. The wall has **20 windows**.

(b) $20-6=14$. **14 windows** have lights off.

(c) The second wall has $5+5+5=15$ windows. $20-15=5$. The first wall has **5 more windows**.

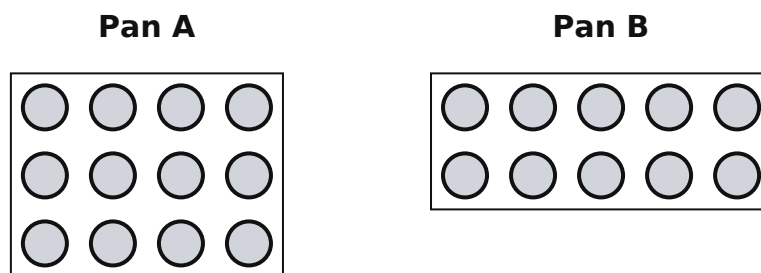
Scoring: 1 point for each correct answer: 20, 14, and 5. Part (b) and part (c) earn the point if the work correctly uses the student's answer to part (a) or the correct total for the second wall.

Question 9: Muffin pans (3 points)

(a) Pan A: $4+4+4=12$. Pan B: $5+5=10$.

(b) Pan A has **12 muffins**. Pan B has **10 muffins**.

(c) $12-10=2$. **Pan A** has **2 more** muffins.



Pan A and Pan B.

Scoring: 1 point for both equations. 1 point for both totals (12 and 10). 1 point for naming Pan A and the difference 2.

Total
20 points