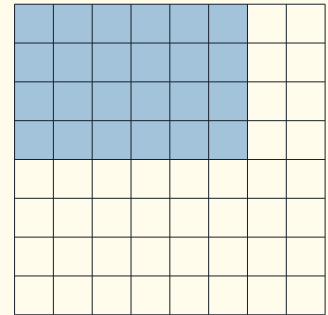


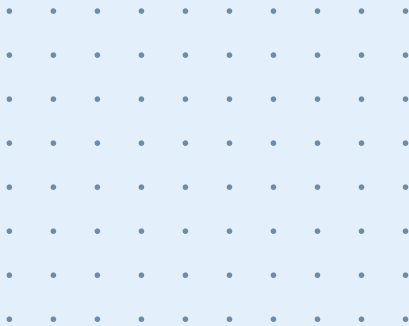
ARRAY AS ROWS $\times$ COLUMNS

- 1 The shaded array has 4 rows with 6 squares in each row.
- 2 Read the rows as repeated addition: $6 + 6 + 6 + 6$.
- 3 That is the same as the multiplication $4 \times 6 = 24$.



WARM-UP

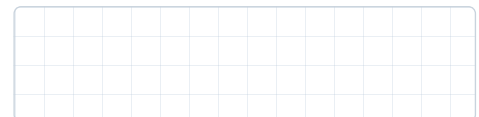
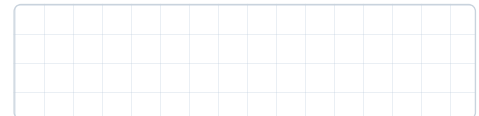
Ring equal rows of dots on the lattice to build each array, then write its total.



1. Ring 3 rows of 5 dots and write the repeated addition and the product
2. Ring 5 rows of 7 dots and write the total the array shows
3. Ring 2 rows of 6 dots, then ring the turned array as 6 rows of 2 and compare the totals

PRACTICE

- 1 A baker lays out 2 rows of buns with 7 buns in each row. Write it as a repeated addition and as a multiplication.
- 2 A shop shelf has 3 rows of jam jars with 6 jars in each row. How many jars in all?
- 3 A box of eggs is packed in 3 rows with 8 eggs in each row. Write it two ways and find the total.



? ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- a. An array of 3 rows of 5 buns holds the same total as $5 + 5 + 5$.
- b. Turning an array on its side changes how many objects are inside it.
- c. In an array every row holds the same number of objects.
- d. An array of buns has more rows than objects in each row.

REFLECT

Did the grid make the parts of the product clearer for you?