

Name _____ Date _____

Related Division and Multiplication

CA Standards
KEY NS 2.3, MR 3.2

You can use arrays to relate division and multiplication.

Multiply the number of rows by the number of stars in each row to find the number in all.



Solution:

$$\begin{array}{ccccccc}
 3 & \times & 5 & = & 15 \\
 \uparrow & & \uparrow & & \uparrow \\
 \text{number} & & \text{number} & & \text{number} \\
 \text{of rows} & & \text{of stars in} & & \text{in all} \\
 & & \text{each row} & &
 \end{array}$$

Divide the number in all by the number of rows to find the number of stars in each row.



Solution:

$$\begin{array}{ccccccc}
 15 & \div & 3 & = & 5 \\
 \uparrow & & \uparrow & & \uparrow \\
 \text{number} & & \text{number} & & \text{number} \\
 \text{in all} & & \text{of rows} & & \text{of stars in} \\
 & & & & \text{each row}
 \end{array}$$

Use the array to complete the number sentences.



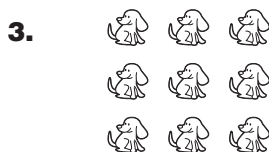
$2 \times \underline{\quad} = 12$

$12 \div \underline{\quad} = 6$



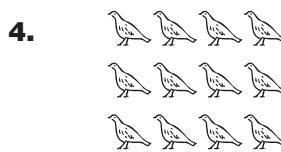
$\underline{\quad} \times 7 = 7$

$\underline{\quad} \div 1 = 7$



$3 \times \underline{\quad} = 9$

$9 \div \underline{\quad} = 3$



$3 \times \underline{\quad} = 12$

$12 \div \underline{\quad} = 4$



Writing Math What two related kinds of number sentences can you write for an array of dots?
