

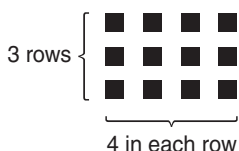
Hands On: Model Division

CA Standards
NS 2.0, MR 2.3

Use arrays to divide 12 by 3.

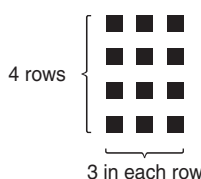
You can arrange 12 counters into an array with 3 rows, or you can arrange 12 into an array with 3 in each row.

Way 1 Arrange 12 into an array with 3 rows. Find how many are in each row.



$$\begin{array}{ccccccc}
 12 & \div & 3 & = & 4 & & \\
 \uparrow & & \uparrow & & \uparrow & & \\
 \text{total} & & \text{number} & & \text{number} & & \\
 \text{number} & & \text{of rows} & & \text{in each row} & &
 \end{array}$$

Way 2 Arrange 12 into an array with 3 in each row. Find the number of rows.



$$\begin{array}{ccccccc}
 12 & \div & 3 & = & 4 & & \\
 \uparrow & & \uparrow & & \uparrow & & \\
 \text{total} & & \text{number in} & & \text{number} & & \\
 \text{number} & & \text{each row} & & \text{of rows} & &
 \end{array}$$

Use counters to find the number in each equal group. Then complete each division sentence.

	Number of Counters	Number of Equal Groups	Number in Each Group	Division Sentence
1.	4	2		$4 \div 2 = \underline{\quad}$
2.	24	4		$24 \div 4 = \underline{\quad}$
3.	16	8		$16 \div 8 = \underline{\quad}$
4.	6	6		$6 \div 6 = \underline{\quad}$



Writing Math Mia has 15 counters and wants to show $15 \div 3$. How should she arrange the counters in an array?