## National Curriculum Aims

$>$ recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers
$>$ calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication $(\times)$, division ( $\div$ ) and equals (=) signs.
$>$ show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot
$>$ solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.

| Key Vocabulary |  |
| :--- | :--- |
| Column | An arrangement of objects or numbers up and down. |
| Divide | Share or group a quantity into a number of equal <br> parts. |
| Division | Is an operation on numbers in which a number is <br> shared or grouped equally into a number of parts. |
| Factor | A factor is a whole number that divides exactly into <br> another number without leaving a remainder. |
| Multiple | A multiple is a number made by multiplying together <br> two other numbers. |
| Multiplication | Is the operation of adding a number to itself a given <br> number of times (repeated addition). |
| Multiply | To carry out the process of multiplication. |
| Product | When two or more numbers are multiplied together, <br> the answer is the product of those numbers. |
| Repeated Addition | Repeatedly adding the same amount. |
| Row | An arrangement of objects or numbers going across. |



Home Learning

- Remember to use Times Table Rock Stars to help learn your times tables and related division.
- Explain how to use an array and repeated addition to an adult.


## Core Knowledge and Representations

## Multiplication

## Array

Rows and columns with an equal amount in each.

$5 \longleftarrow 3$ 日 15

## Repeated Addition

$$
5+5+5=15
$$

$$
3 \approx 5 \text { ■ } 15
$$

## Division

Repeated Subtraction
You can use repeated subtraction to see how many
times a smaller number goes into a bigger one.
$15 \div 3=$ ?


The number of times you can take 3 from 15 is 5 .

$$
\begin{gathered}
15-3-3-3-3-3=0 \\
15 \div 3=5
\end{gathered}
$$

Equal Groups
Use the same number
of ones in each group.


325 日 15

Number Line
Starting from zero, hop 5 at a time
Where do you land?


1 hop of $5=5$
2 hops of $5=10$
hops of $5=10$
hops of $5=15$
345 - 15


Grouping using arrays.

