## Maths - Year 4

## Calculating 12: Developing fluency with the short written method

 of multiplying| Key Vocabulary |  |
| :--- | :--- |
| Array | A rectangular arrangement of objects or <br> numbers in rows and columns. |
| Factor | A number that divides into another number <br> exactly, e.g. 4 is a factor of 8. |
| Multiple | The product of 2 whole numbers larger than <br> one e.g. 15 is a multiple of 3 and 5. |
| Partition | Splitting a number in different ways, usually to <br> help with calculating, e.g. 27 can be <br> partitioned into 2 tens (20) and 7 ones (7) |

## Mathematical Skills

- Derive multiplying sentences from parts of an array and add these to find the total product.
- Record balancing multiplying sentences using brackets to separate the parts being multiplied.
- Use knowledge of place value and recall of multiplying facts when partitioning and multiplying numbers.
- Describe the steps involved in the short written method of multiplying.
- Multiply to solve measure and money problems.


## Mathematical Methods

- Multiplying in parts e.g. $(3 \times 5)+(3 \times 2)=3 \times 7$.

- Developing fluency with the short written method of multiplying.


A context for multiplying TO $\times \mathrm{O}$ (Tens and ones x ones)


- Multiplying in a measuring context introducing HTU x O e.g. a banana weighs 124 g . What is the mass of 6 bananas?

- Developing fluency and accuracy with the short written method of multiplying.



## Can you..?

- The rectangle shows how many pieces of fruit were sold. What different number sentences could you write to show how many pieces of fruit were sold?

- A pair of shorts costs $£ 4.75$. How much would five pairs of shorts cost?
- A carton of orange juice costs 49p and a bottle of apple juice costs 65 p. Which costs more, 9 cartons of orange juice or 3 bottles of apple juice?

