Maths in Year 4
# Calculation methods

In Year 4, we look at building on prior knowledge from year 3 and building conceptual number sense up to thousand numbers.
Here is an overview of the key arithmetic skills taught in year 4 and how the knowledge is acquired.

Addition:
- To use the formal column addition method to add numbers using the thousand column with regrouping.
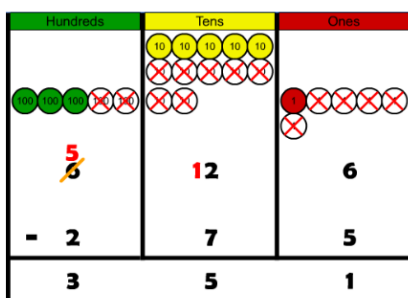- To use the formal addition method to add decimals.
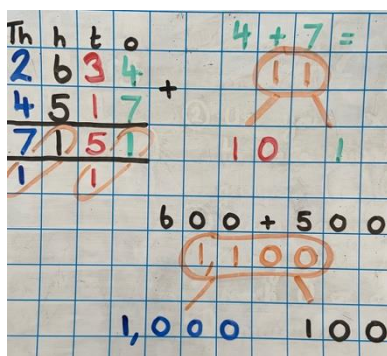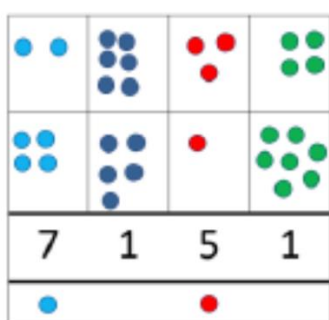
Subtraction:
- To use the formal column subtraction method to subtract numbers using the thousand column with regrouping.
- To use the formal subtraction method to subtract decimals.
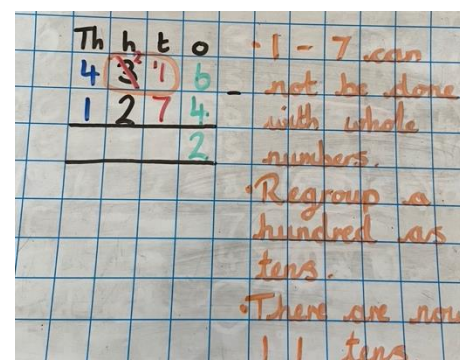
Multiplication:

- To multiply a two digit and one digit number together using the short multiplication method.
- To multiply a three digit and one digit number together using the short multiplication method.
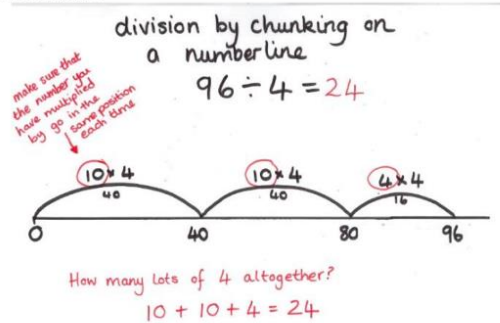
Show the link with arrays to first introduce the grid method.

4 rows of 10
4 rows of 3

Grid method   Column method

Grid method   Column method
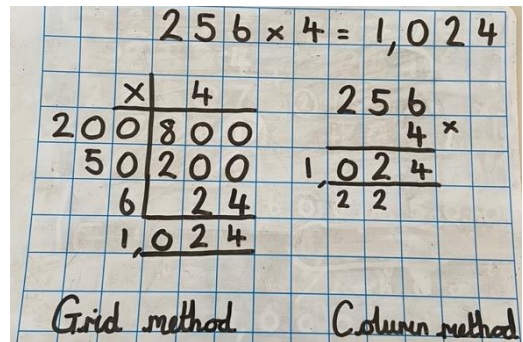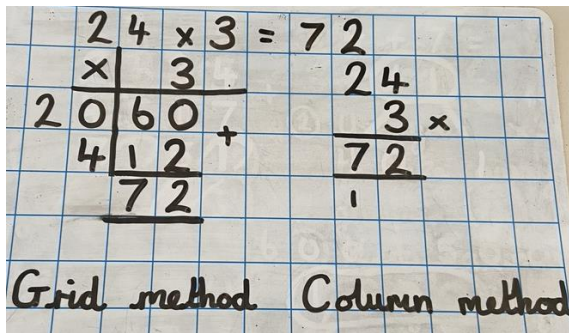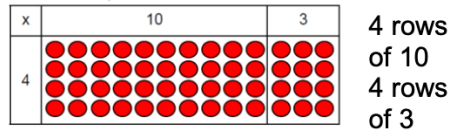
Division:

- To divide a two digit number by a one digit number using the chunking method using knowledge beyond times table facts.
- To divide a three digit number by a one digit number using the chunking method.
- To divide with remainders.

Jump in grouped jumps on a number line. Try to use 'chunks' of 10 using times table knowledge until you can no longer use chunks of 10. What times table could you use now?

division by chunking on a number line
$96 \div 4 = 24$

make sure you have multiplied the number by go in the same position each time

How many lots of 4 altogether?
$10 + 10 + 4 = 24$

Keep track of the number of groups you have subtracted in total – this will be the quotient.