

Broadmayne First School Knowledge Organiser

Maths Focus

Addition and Subtraction

Year 3

Autumn Term 2

Addition Vocabulary

Subtraction Vocabulary

add

subtract

altogether

take away

sum (also known as total)

difference

plus

minus

more

less

regrouping
estimate

renaming
calculate

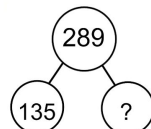
Inverse
equation/calculation

Bar Modelling and Part, Part Whole

A bar model and Part, Part, Whole

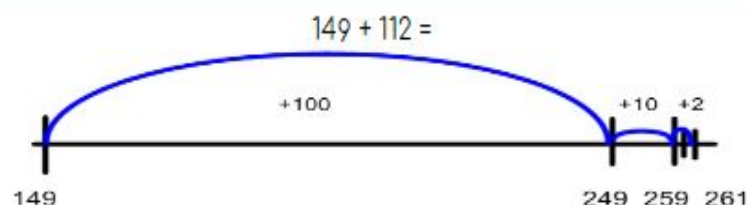
?
185 315

315
185 ?

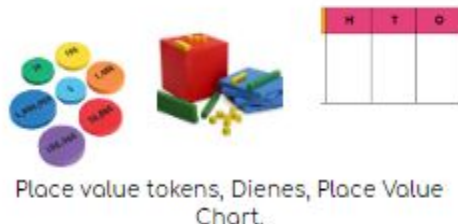


show our understanding of a problem and how it could be solved.

Using a Number Line



Practical resources



Place value tokens, Dienes, Place Value Chart.

Using inverse to check

$$148 - 57 = 91$$

$$148 - 91 = 57$$

$$57 + 91 = 148$$

$$91 + 57 = 148$$

Rounding to estimate

$$167 + 89 =$$

$$170 + 90 = 160$$

$$241 - 109 =$$

$$240 - 110 = 130$$

Compensating

$$280 - 137 =$$

$$280 - 140 = 140 + 3 = 143$$

137 to 140 difference of 3
We took away too many so we compensate by adding

Key Knowledge

Counting on/back 1s, then 10s, then 100s

$$368 + 73 = 368 + 3 = 371 + 70 = 441$$

$$441 - 73 = 441 - 3 = 438 - 70 = 368$$

Addition

No regrouping

Regrouping one
column

Regrouping in
multiple columns

$$\begin{array}{r} 142 \\ + 137 \\ \hline 279 \end{array}$$

$$\begin{array}{r} 328 \\ + 43 \\ \hline 371 \end{array}$$

$$\begin{array}{r} 368 \\ + 73 \\ \hline 441 \end{array}$$

Starting with the ones, add each column in turn.

Starting with the ones, add each column in turn. If the total is more than 9 groups, you will need to regroup into the next column. Eg, 6 tens + 9 tens = 15 tens, therefore 5 tens remain in T column and 10 tens are regrouped as 1 group of 100.

Subtraction

No renaming

Renaming in one
column

Renaming in multiple
columns

$$\begin{array}{r} 279 \\ - 142 \\ \hline 137 \end{array}$$

$$\begin{array}{r} 328 \\ - 43 \\ \hline 285 \end{array}$$

$$\begin{array}{r} 368 \\ - 73 \\ \hline 295 \end{array}$$

Starting with the ones, subtract each column in turn.

Starting with the ones, subtract each column in turn. If you are unable to subtract because the number is smaller, you can rename a group from the previous column. Eg, 4 tens - 7 tens then rename 10 tens from the hundreds to make 14 tens - 7 tens.