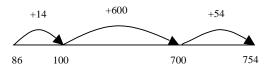
Subtraction

Subtract the nearest multiple of 10, then adjust.

E.g. 63 - 29 is the same as 63 - 30 + 1

Pencil and paper procedures

Complementary addition



For those children with a secure mental image of the number line they could record the jumps only:

668

Multiplication

Pencil and paper procedures

First secure knowledge of times tables then:

Grid method

 23×7 is approximately $20 \times 10 = 200$

$$\begin{array}{c|cccc} x & 20 & 3 \\ \hline 7 & 140 & 21 & = 16 \end{array}$$

Leading to

 72×38 is approximately $70 \times 40 = 2800$

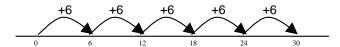
$$\begin{array}{c|cccc} x & 70 & 2 \\ \hline 30 & 2100 & 60 \\ \hline 8 & 560 & 16 \end{array} = \begin{array}{c} 2160 \\ = \underline{576} \\ 2736 \end{array}$$

Division

Sharing and grouping

30 ÷ 6 can be modelled as:

grouping - groups of 6 placed on no. line and the number of groups counted e.g.



sharing - sharing among 6, the number given to each person, e.g. arrays

12 children get into teams of 4 to play a game. How many teams are there?



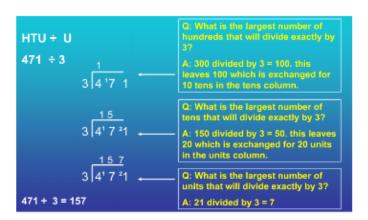




Remainders

 $41 \div 4 = 10 \text{ r}1$

Leading to: Bus stop method



These are the ways that we currently teach the different methods for addition, subtraction, multiplication and division. As we move into Key Stage 2 confident times tables work is very important!.

Addition

Add the nearest multiple of 10, then adjust

E.g. 63 + 29 is the same as 63 + 30 - 1

Pencil and paper procedures

367 + 185 = 431

either	or
367	300 + 60 + 7
+ <u>185</u>	100 + 80 + 5
12	400 +140+12 = 552
140	
<u>400</u>	
552	

leading to

Extend to decimals in the context of money.