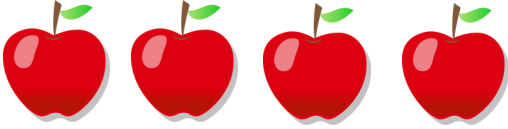


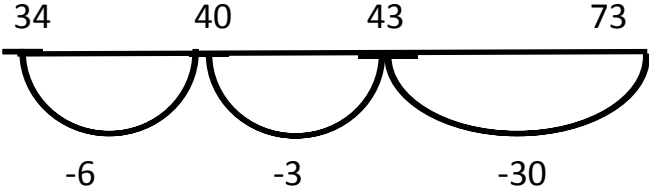


Subtraction

<u>Stages</u>	<u>Examples</u>
<p><u>Stage 1</u></p> <p>Looking at sets of objects and identifying which is LESS e.g 2 elephants is LESS than 3 elephants—use Numicon to support.</p> <p>Practical activities moving on to use of pictures.</p>	 <p>Cross off 1 LESS</p> <p>Link to numerals</p>
<p><u>Stage 2</u></p> <p>Draw pictures to support and cross out however many you are taking away.</p>	<p>$7 - 2 =$</p> 
<p><u>Stage 3</u></p> <p>Count back on a number line with numbers already on it.</p> <p>Introduce 100 squares linking to 2 less than, 3 less than etc</p>	<p>$12 - 3 = 9$</p> 
<p><u>Stage 4</u></p> <p>Using a number line. Work by counting back.</p> <p>Partition second number in to tens and ones. (Children should be allowed to partition in to smaller jumps if needed e.g 39 partitioned in to 10-10-10-5-4)</p> <p>Take away the tens first, then the ones</p> <p>*Children should be taught to use recall of number bonds when subtracting ones*</p>	<p>$73 - 39 =$</p>  <p>Discuss with the children that they can work out how to find the difference by counting on.</p>

Subtraction

Stage 5

Start introducing the column subtraction method.

Partitioned numbers are written under one another.

$$77 - 25 =$$

$$\begin{array}{r} 70 + 7 \\ - 20 + 5 \\ \hline 50 + 2 = 52 \end{array}$$

Stage 6

Move to the more formal column method.

(No exchanging)

$$\begin{array}{r} 874 \\ - 523 \\ \hline 351 \end{array}$$

Stage 7

Introduce exchanging using practical resources such as dienes, arrow cards etc

Ensure place value is secure.

Begin recording the calculation alongside the dienes to show the exchanging.

$$\begin{array}{r} 342 \\ - 27 \\ \hline \end{array}$$

Stage 8

Exchanging across one column e.g. from tens to ones or hundreds to tens

Move on to exchanging across columns including zeros in the top number.

Extend to decimal numbers.

$$\begin{array}{r} 8 \quad 12 \quad 1 \\ 9 \quad 3 \quad 2 \\ - 4 \quad 5 \quad 7 \\ \hline 4 \quad 7 \quad 5 \end{array}$$

Stage 9

Explore the order of operations using brackets. Children to know they need to solve bracketed operation first.

$$2 + 1 \times 3 = 5$$

$$(2 + 1) \times 3 = 9$$