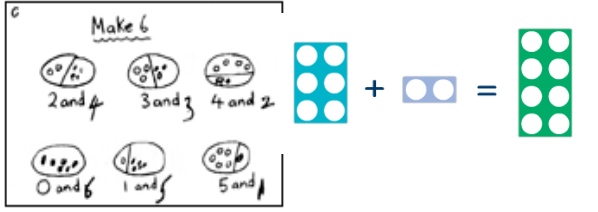
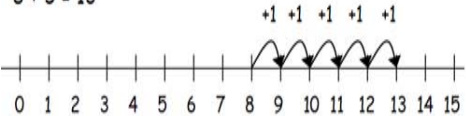
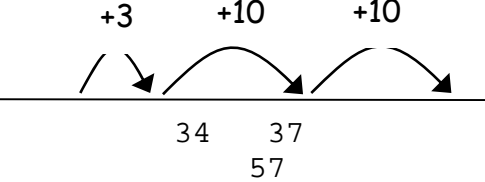
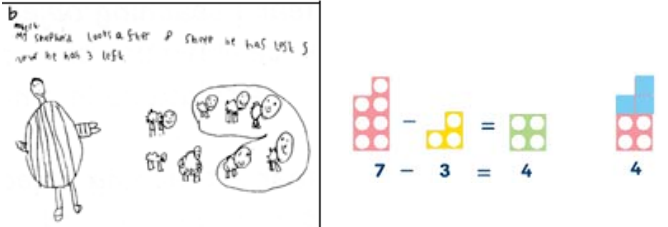
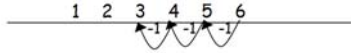
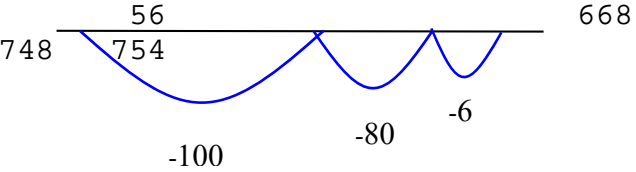


Milestones for Addition

| ADDITION | METHOD | VOCABULARY | RESOURCES |
|---|---|---|------------------------------|
| Pictorial representation of addition |  | ADD ALTOGETHER MORE THAN EQUALS TOTAL | Cubes Numicon Counters |
| Adding Ones U + U TU + U | $8 + 5 = 13$  | MORE THAN TOTAL | Number lines |
| Adding Tens and Units (Extending to HTU, ThHTU, decimals) Moving to Expanded Partitioning written vertically | $34 + 23 = 57$  47 34 37 57 $61 + 12 = 73$ $1 + 2 = 3$ $60 + 10 = 70$ $70 + 3 = 73$ | PARTITION UNITS TENS HUNDREDS THOUSANDS | Number lines |
| Column Method TU + TU HTU + TU HTU + HTU ThHTU + TU ThHTU + HTU ThHTU + ThHTU Decimals Adding several numbers | $\begin{array}{r} 567 + \\ 236 \\ \hline \end{array}$ ALWAYS ADD UNITS FIRST! | COLUMN ADDITION CARRY TENTHS HUNDREDTHS THOUSANDTHS | Dice Number cards |

Milestones for Subtraction

| SUBTRACTION | METHOD | VOCABULARY | RESOURCES |
|---|--|--|---------------------------------------|
| <p>Pictorial representation of subtraction</p> |  | <p>TAKE AWAY SUBTRACT LESS THAN EQUALS TOTAL</p> | <p>Cubes Numicon Counters</p> |
| <p>Subtracting Ones U - U TU - U</p> | <p>$6 - 3 = 3$</p>  | <p>MORE THAN TOTAL LARGEST NUMBER DIFFERENCE</p> | <p>Number lines</p> |
| <p>Subtracting Tens and Units (Extending to HTU, ThHTU, decimals) Counting on if the difference is small (132 - 117)</p> <p>Moving to teaching alongside Expanded Partitioning written vertically (numbers that don't cross tens boundary) Extending to partitioning smaller number only.</p> | <p>$754 - 186 = 568$</p>  <p>$89 - 57 = 32$</p> <p>$9 - 7 = 2$ $80 - 50 = 30$ $30 + 2 = 32$</p> <p>$89 - 50 = 39$ $39 - 7 = 32$</p> | <p>PARTITION UNITS TENS HUNDREDS THOUSANDS</p> | <p>Number lines</p> |
| <p>Column Method TU - TU HTU - TU HTU - HTU ThHTU - TU ThHTU - HTU ThHTU - ThHTU</p> | <p>$1347 - 236$</p> <hr/> <p>SUBTRACT UNITS FIRST!</p> | <p>COLUMN SUBTRACTION EXCHANGE CARRY TENTHS HUNDREDTHS THOUSANDTHS</p> | <p>Dice Number cards</p> |

Decimals
Subtracting several
numbers