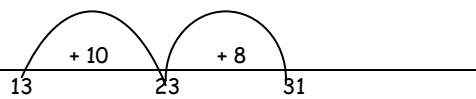


Addition Methods

Finding one more	Combining 2 or 3 groups	Counting on	Rapid Recall											
<p>For example:</p> <ul style="list-style-type: none"> There are 3 people on the bus, 1 more gets on. How many are on the bus now? (say together: 4 is more than 3. 3 add 1 is 4) There are 4 children in the role play area. 1 more comes and joins them. How many are there now? (say together: 5 is 1 more than 4. 4 add 1 is 5.) 	<p>Say how many there are altogether by counting all the objects.</p> <p>For example respond to:</p> <ul style="list-style-type: none"> Count out 4 cakes. Count out 3 cakes. How many cakes altogether? (Count 1, 2, 3, 4... 1, 2, 3... Altogether there are 1, 2, 3, 4, 5, 6, 7. Say together: 4 add 3 is 7). There are 2 cars in the garage. Let's count them. 3 more arrive. Let's count them. How many cars now? (Count: 1, 2 ... 1, 2, 3... 1, 2, 3, 4, 5 Say together: 2 add 3 is 5). 	<p>Say how many there are altogether by counting on when one of the groups of objects cannot be seen.</p> <ul style="list-style-type: none"> Count 4 beans into a tin with a lid on. Emphasise that there are 4 beans in the tin. Label the lid with 4. Put 3 more beans on the table. How many altogether? (Count on from 3 from the hidden 4: 5, 6, 7. Say together 4 add 3 is 7). Count 5 pennies into a purse and shut it. Show 2 more pennies in a hand. How many pennies altogether? (Count on 2 from the hidden 5: 6, 7. Say together: 5 add 2 is 7). 	<p>Know addition facts to 10. Encourage the children to know how many make 10, when secure develop to 20. These are facts which need to be known at quick recall without counting on.</p> <ul style="list-style-type: none"> I have 6 cakes, how many will make 10? Build a tower with 4 blocks, how many will make a tower of 10? I have 3p, how much more do I need to make 10? 											
Adding more than 2 numbers	Addition facts – Near Doubles	Partition and recombine	Add the most significant digit - Horizontal											
<p>Add three numbers. For example, use rods or a number line to:</p> <ul style="list-style-type: none"> Choose three of the numbers from this set: 4, 5, 6, 9. Add them up. What different totals can you make? Write 12 as the sum of three numbers, do this in different ways. A plum costs 5p. Find the cost of three plums, use coin if needed. <p>Recognising numbers bonds to 10 to help add several numbers:</p> <ul style="list-style-type: none"> $\underline{3} + 4 + 1 + \underline{3} = 10 + 5 = 15$ 	<p>Know by heart all pairs of numbers that total 10 (later on develop to 20, or if struggling start with 5.</p> <p>For example, rapidly:</p> <ul style="list-style-type: none"> Find pairs of cards with the total 10 Say how many more counters are needed to make 10 altogether Say how many steps must be taken to get from 4 to 10 on a number line, or from 10, Put numbers in the boxes to make 10: $? + ? = 10$ There are 3 cars here, double it (model if needed by counting out 3 more) 	<p>Begin to partition and recombine by breaking units of 6, 7, 8 or 9 into '5 and a bit'</p> <p>For example, work out mentally that:</p> $5 + 8 = 5 \text{ plus } (5 \text{ and } 3)$ $= 5 + 5 + 3$ $= 10 + 3$ $= 13$	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">T U 2 1</td> <td style="text-align: center;">+</td> <td style="text-align: center;">T U 1 3</td> </tr> <tr> <td colspan="3" style="text-align: center;">20 + 10 = 30</td> </tr> <tr> <td colspan="3" style="text-align: center;">30 + 4 = 34</td> </tr> </table> <p style="text-align: center;">Develops to a more formal written method:</p> $67 + 24 = (60 + 20) + (7 + 4) =$ $80 + 11 = 91$	T U 2 1	+	T U 1 3	20 + 10 = 30			30 + 4 = 34				
T U 2 1	+	T U 1 3												
20 + 10 = 30														
30 + 4 = 34														
Counting on in multiples of 10, 100, 1000	Add the most significant - Vertical	Compensation	Standard written methods - Decomposition											
<p>$13 + 18 = 13 + 10 + 8 = 31$</p>  <p style="text-align: center;">$13 + 18 = 13 + (10 + 8)$ $= 23 + 8$ $= 31$</p>	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">$\begin{array}{r} 57 \\ + 24 \\ \hline 81 \end{array}$</td> <td style="text-align: center;">OR</td> <td style="text-align: center;">$\begin{array}{r} 83 \\ + 42 \\ \hline 125 \end{array}$</td> </tr> </table>	$\begin{array}{r} 57 \\ + 24 \\ \hline 81 \end{array}$	OR	$\begin{array}{r} 83 \\ + 42 \\ \hline 125 \end{array}$	<p>Add too much and take off after</p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">$\begin{array}{r} 754 \\ + 86 \\ \hline 840 \end{array}$</td> <td style="text-align: center;">(754 + 100)</td> </tr> <tr> <td style="text-align: center;">$\begin{array}{r} 854 \\ - 14 \\ \hline 840 \end{array}$</td> <td style="text-align: center;">(86 - 100)</td> </tr> </table>	$\begin{array}{r} 754 \\ + 86 \\ \hline 840 \end{array}$	(754 + 100)	$\begin{array}{r} 854 \\ - 14 \\ \hline 840 \end{array}$	(86 - 100)	<p>Often known as carrying</p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">$\begin{array}{r} 587 \\ + 475 \\ \hline 1062 \end{array}$</td> <td style="text-align: center;">$\begin{array}{r} 3587 \\ + 675 \\ \hline 4262 \end{array}$</td> </tr> <tr> <td style="text-align: center;">1 1</td> <td style="text-align: center;">1 1 1</td> </tr> </table>	$\begin{array}{r} 587 \\ + 475 \\ \hline 1062 \end{array}$	$\begin{array}{r} 3587 \\ + 675 \\ \hline 4262 \end{array}$	1 1	1 1 1
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<p>Vocabulary:</p> <p>Addition: One more, together, add, addition, plus, total, altogether, how many more to make ...</p> <p>Place value: units, tens, hundreds, thousands</p>														