

Year 3 Addition and Subtraction Knowledge Organiser.

Addition and Subtraction	Knowledge Organiser																																		
Key Vocabulary	Addition and Subtraction Methods																																		
add	<p>3-digit and 1-digit numbers</p> <p>Not crossing 10s</p> $268 - 4 = 264$ <table border="1" style="margin: 0 auto; text-align: center;"> <tr><th>Hundred</th><th>Ten</th><th>Ones</th></tr> <tr><td>●●</td><td>●●●●</td><td>●●●●●●</td></tr> </table> $343 + 6 = 349$ <p style="text-align: center;">340 350</p> <p>Crossing 10s (Exchanging)</p> <table border="1" style="margin: 0 auto; text-align: center;"> <tr><th colspan="3">324</th></tr> <tr><td>300</td><td>20</td><td>4</td></tr> <tr><td>300</td><td>10</td><td>14</td></tr> </table> $316 + 8 = 324$ <table border="1" style="margin: 0 auto; text-align: center;"> <tr><td>316</td><td>8</td></tr> </table> $324 - 8 = 316$	Hundred	Ten	Ones	●●	●●●●	●●●●●●	324			300	20	4	300	10	14	316	8	<p>3-digit and 2-digit numbers</p> <p>Add and subtract tens</p> <table border="1" style="margin: 0 auto; text-align: center;"> <tr><th>Hundred</th><th>Ten</th><th>Ones</th></tr> <tr><td>●●●</td><td>●●●●</td><td>●</td></tr> </table> $451 + 3 \text{ tens} = 481 \quad (5 + 3 = 8)$ $451 - 4 \text{ tens} = 411 \quad (5 - 4 = 1)$ <p>Crossing 10s (Exchanging)</p> $258 + 80 = 338$ <ul style="list-style-type: none"> • Column method • Count in 10s mentally • Add 100, subtract 20 <p>Crossing 10 and 100</p> $\begin{array}{r} 368 \\ +73 \\ \hline 1 \end{array}$ $\begin{array}{r} 368 \\ +73 \\ \hline 41 \end{array}$ $\begin{array}{r} 368 \\ +73 \\ \hline 441 \end{array}$ $\begin{array}{r} 31 \\ 441 \\ -73 \\ \hline 8 \end{array}$ $\begin{array}{r} 3131 \\ 441 \\ -73 \\ \hline 68 \end{array}$ $\begin{array}{r} 3131 \\ 441 \\ -73 \\ \hline 368 \end{array}$	Hundred	Ten	Ones	●●●	●●●●	●	<p>3-digit numbers</p> <p>Not crossing</p> $679 - 351 = 328$ <table border="1" style="margin: 0 auto; text-align: center;"> <tr><th>Hundred</th><th>Ten</th><th>Ones</th></tr> <tr><td>●●●</td><td>●●●</td><td>●●●</td></tr> </table> <p>Crossing 10s (Exchanging)</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center; margin-right: 20px;"> </div> <div style="text-align: right;"> $\begin{array}{r} 269 \\ +154 \\ \hline 423 \\ 11 \end{array}$ </div> </div> <table border="1" style="margin: 0 auto; text-align: center;"> <tr><td>514</td></tr> <tr><td>268</td></tr> <tr><td>?</td></tr> </table> <div style="text-align: right; margin-top: 10px;"> $\begin{array}{r} 4101 \\ 514 \\ -268 \\ \hline 246 \end{array}$ </div>	Hundred	Ten	Ones	●●●	●●●	●●●	514	268	?
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solve problems																																			
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place value																																			
visit twinkl.com																																			
			<p>Add and Subtract 100s</p> $284 + 300 = 584$ <table border="1" style="margin: 0 auto; text-align: center;"> <tr><th>Hundred</th><th>Ten</th><th>Ones</th></tr> <tr><td>●●●</td><td>●●●●</td><td>●</td></tr> <tr><td>●●●</td><td></td><td></td></tr> </table>	Hundred	Ten	Ones	●●●	●●●●	●	●●●																									
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Addition and Subtraction

Estimate

Estimate by dividing the hundred into 250 and 225.
Estimate 10s (330, 340) between 325 and 350.



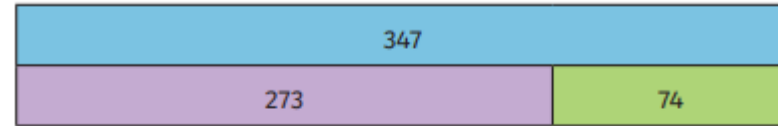
Estimate $167 - 89$
Use near numbers $170 - 90 = 80$

Near numbers:

413	279	521	782
↓	↓	↓	↓
400	300	500	800

Knowledge Organiser

Check Answers



$347 - 74 = 273$ can be checked using
 $273 + 74 = 347$

This part whole shows the inverse calculations using these three numbers.



$154 + 269 = 423$	$269 + 154 = 423$
$423 - 154 = 269$	$423 - 269 = 154$