

Addition vertically

we start adding from the ones

$\begin{array}{r} 10 \\ + 12 \\ \hline 22 \end{array}$	$\begin{array}{r} 13 \\ + 23 \\ \hline 36 \end{array}$	$\begin{array}{r} 24 \\ + 12 \\ \hline 36 \end{array}$
$\begin{array}{r} 33 \\ + 15 \\ \hline 48 \end{array}$	$\begin{array}{r} 14 \\ + 35 \\ \hline 49 \end{array}$	$\begin{array}{r} 44 \\ + 22 \\ \hline 66 \end{array}$
$\begin{array}{r} 50 \\ + 32 \\ \hline 82 \end{array}$	$\begin{array}{r} 82 \\ + 17 \\ \hline 99 \end{array}$	$\begin{array}{r} 35 \\ + 22 \\ \hline 57 \end{array}$
$\begin{array}{r} 16 \\ + 53 \\ \hline 69 \end{array}$	$\begin{array}{r} 66 \\ + 22 \\ \hline 88 \end{array}$	$\begin{array}{r} 25 \\ + 73 \\ \hline 98 \end{array}$

$\begin{array}{r} 524 \\ +223 \\ \hline 747 \end{array}$	$\begin{array}{r} 422 \\ +452 \\ \hline 874 \end{array}$	$\begin{array}{r} 725 \\ +223 \\ \hline 948 \end{array}$
$\begin{array}{r} 832 \\ +123 \\ \hline 955 \end{array}$	$\begin{array}{r} 253 \\ +236 \\ \hline 488 \end{array}$	$\begin{array}{r} 457 \\ +342 \\ \hline 799 \end{array}$
$\begin{array}{r} 655 \\ +334 \\ \hline 989 \end{array}$	$\begin{array}{r} 324 \\ +243 \\ \hline 567 \end{array}$	$\begin{array}{r} 449 \\ +430 \\ \hline 879 \end{array}$

subtracting vertically

we start subtracting from the ones

$\begin{array}{r} 49 \\ - 16 \\ \hline 53 \end{array}$	$\begin{array}{r} 69 \\ - 8 \\ \hline 61 \end{array}$	$\begin{array}{r} 57 \\ - 34 \\ \hline 23 \end{array}$
$\begin{array}{r} 57 \\ - 35 \\ \hline 22 \end{array}$	$\begin{array}{r} 72 \\ - 40 \\ \hline 32 \end{array}$	$\begin{array}{r} 84 \\ - 22 \\ \hline 62 \end{array}$
$\begin{array}{r} 83 \\ - 40 \\ \hline 43 \end{array}$	$\begin{array}{r} 28 \\ - 26 \\ \hline 02 \end{array}$	$\begin{array}{r} 74 \\ - 34 \\ \hline 40 \end{array}$
$\begin{array}{r} 57 \\ - 4 \\ \hline 53 \end{array}$	$\begin{array}{r} 59 \\ - 48 \\ \hline 11 \end{array}$	$\begin{array}{r} 84 \\ - 43 \\ \hline 41 \end{array}$

$\begin{array}{r} 932 \\ - 810 \\ \hline 122 \end{array}$	$\begin{array}{r} 549 \\ - 320 \\ \hline 229 \end{array}$	$\begin{array}{r} 950 \\ - 130 \\ \hline 820 \end{array}$	$\begin{array}{r} 566 \\ - 343 \\ \hline 223 \end{array}$
$\begin{array}{r} 274 \\ - 153 \\ \hline 121 \end{array}$	$\begin{array}{r} 384 \\ - 262 \\ \hline 122 \end{array}$	$\begin{array}{r} 796 \\ - 270 \\ \hline 526 \end{array}$	$\begin{array}{r} 243 \\ - 120 \\ \hline 123 \end{array}$
$\begin{array}{r} 266 \\ - 124 \\ \hline 142 \end{array}$	$\begin{array}{r} 978 \\ - 736 \\ \hline 242 \end{array}$	$\begin{array}{r} 486 \\ - 346 \\ \hline 140 \end{array}$	$\begin{array}{r} 598 \\ - 155 \\ \hline 443 \end{array}$

addition with regrouping

we start adding from the ones

10 or more we take the extra next door

$\begin{array}{r} +1 \\ 64 \\ +28 \\ \hline 92 \end{array}$	$\begin{array}{r} +1 \\ 88 \\ +6 \\ \hline 94 \end{array}$	$\begin{array}{r} +1 \\ 26 \\ +55 \\ \hline 81 \end{array}$
$\begin{array}{r} +1 \\ 39 \\ +49 \\ \hline 88 \end{array}$	$\begin{array}{r} +1 \\ 53 \\ +37 \\ \hline 90 \end{array}$	$\begin{array}{r} +1 \\ 37 \\ +34 \\ \hline 71 \end{array}$
$\begin{array}{r} +1 \\ 38 \\ +56 \\ \hline 94 \end{array}$	$\begin{array}{r} +1 \\ 55 \\ +25 \\ \hline 80 \end{array}$	$\begin{array}{r} +1 \\ 68 \\ +24 \\ \hline 92 \end{array}$

$\begin{array}{r} \overset{+1}{546} \\ +436 \\ \hline 982 \end{array}$	$\begin{array}{r} \overset{+1}{438} \\ +522 \\ \hline 960 \end{array}$	$\begin{array}{r} \overset{+1}{312} \\ +349 \\ \hline 661 \end{array}$
$\begin{array}{r} \overset{+1}{724} \\ +137 \\ \hline 866 \end{array}$	$\begin{array}{r} \overset{+1}{239} \\ +436 \\ \hline 675 \end{array}$	$\begin{array}{r} \overset{+1}{523} \\ +267 \\ \hline 790 \end{array}$
$\begin{array}{r} \overset{+1}{155} \\ +238 \\ \hline 393 \end{array}$	$\begin{array}{r} \overset{+1}{447} \\ +327 \\ \hline 774 \end{array}$	$\begin{array}{r} \overset{+1}{262} \\ +219 \\ \hline 481 \end{array}$

subtraction with regrouping

we start subtracting from the ones

If the number on top is smaller than the number at the bottom
we borrow from the neighbour then subtract

78 ← **More on TOP?**
-26 **NO need to Stop!**

More On the FLOOR? $\begin{array}{r} 3 \cancel{1} 2 \\ - 4 2 \\ \hline \end{array}$ **Go next door and get 10 more!** **-26**

35 ← **Numbers the SAME?**
-15 **Zero's the game!**
0

$\begin{array}{r} \overset{6}{\cancel{7}}\overset{11}{1} \\ - 36 \\ \hline 35 \end{array}$	$\begin{array}{r} \overset{7}{\cancel{8}}\overset{14}{4} \\ - 59 \\ \hline 25 \end{array}$	$\begin{array}{r} \overset{4}{\cancel{5}}\overset{10}{0} \\ - 28 \\ \hline 22 \end{array}$
$\begin{array}{r} \overset{5}{\cancel{6}}\overset{13}{3} \\ - 45 \\ \hline 18 \end{array}$	$\begin{array}{r} \overset{8}{\cancel{9}}\overset{12}{2} \\ - 67 \\ \hline 25 \end{array}$	$\begin{array}{r} \overset{3}{\cancel{4}}\overset{10}{0} \\ - 25 \\ \hline 15 \end{array}$
$\begin{array}{r} \overset{7}{\cancel{8}}\overset{12}{2} \\ - 38 \\ \hline 44 \end{array}$	$\begin{array}{r} \overset{8}{\cancel{9}}\overset{11}{1} \\ - 73 \\ \hline 18 \end{array}$	$\begin{array}{r} \overset{5}{\cancel{6}}\overset{10}{0} \\ - 47 \\ \hline 13 \end{array}$
$\begin{array}{r} \overset{6}{\cancel{7}}\overset{13}{3} \\ - 58 \\ \hline 15 \end{array}$	$\begin{array}{r} \overset{4}{\cancel{5}}\overset{11}{1} \\ - 34 \\ \hline 17 \end{array}$	$\begin{array}{r} \overset{7}{\cancel{8}}\overset{10}{0} \\ - 67 \\ \hline 13 \end{array}$

HUNDREDS	TENS	ONES
	7 8	15 5
2 1	6	6
1	1	9

HUNDREDS	TENS	ONES
	6 7	13 3
6	5	4
6	1	9

HUNDREDS	TENS	ONES
	8 9	12 2
7	8	8
7	0	4

HUNDREDS	TENS	ONES
	8 9	12 2
3 2	4	6
1	4	6

HUNDREDS	TENS	ONES
	6 7	11 1
4 1	2	5
3	4	6

HUNDREDS	TENS	ONES
	7 8	10 0
5	2	4
5	5	6

Before answering pay attention to the
sign

+ means add

- means subtract

$$\begin{array}{r} 147 \\ + 65 \\ \hline \end{array}$$

$$\begin{array}{r} 249 \\ + 54 \\ \hline \end{array}$$

$$\begin{array}{r} 480 \\ + 96 \\ \hline \end{array}$$

$$\begin{array}{r} 724 \\ + 77 \\ \hline \end{array}$$

$$\begin{array}{r} 338 \\ + 164 \\ \hline \end{array}$$

$$\begin{array}{r} 761 \\ + 139 \\ \hline \end{array}$$

$$\begin{array}{r} 623 \\ + 479 \\ \hline \end{array}$$

$$\begin{array}{r} 584 \\ + 215 \\ \hline \end{array}$$

$$\begin{array}{r} 328 \\ - 68 \\ \hline \end{array}$$

$$\begin{array}{r} 169 \\ - 74 \\ \hline \end{array}$$

$$\begin{array}{r} 943 \\ - 52 \\ \hline \end{array}$$

$$\begin{array}{r} 517 \\ - 63 \\ \hline \end{array}$$

$$\begin{array}{r} 876 \\ - 268 \\ \hline \end{array}$$

$$\begin{array}{r} 545 \\ - 385 \\ \hline \end{array}$$

$$\begin{array}{r} 808 \\ - 628 \\ \hline \end{array}$$

$$\begin{array}{r} 734 \\ - 461 \\ \hline \end{array}$$

$$\begin{array}{r} 373 \\ +277 \\ \hline \end{array}$$

$$\begin{array}{r} 728 \\ +184 \\ \hline \end{array}$$

$$\begin{array}{r} 329 \\ -286 \\ \hline \end{array}$$

$$\begin{array}{r} 197 \\ +583 \\ \hline \end{array}$$

$$\begin{array}{r} 958 \\ -566 \\ \hline \end{array}$$

$$\begin{array}{r} 592 \\ -187 \\ \hline \end{array}$$

$$\begin{array}{r} 391 \\ -274 \\ \hline \end{array}$$

$$\begin{array}{r} 869 \\ +108 \\ \hline \end{array}$$

$$\begin{array}{r} 614 \\ +217 \\ \hline \end{array}$$

$$\begin{array}{r} 756 \\ -528 \\ \hline \end{array}$$

$$\begin{array}{r} 426 \\ -342 \\ \hline \end{array}$$

$$\begin{array}{r} 821 \\ +169 \\ \hline \end{array}$$