



Year 5 Addition and Subtraction

Key Vocabulary	Addition	Subtraction																																																																				
add	Place Value Grid: $3274 + 5601 = 8875$	Place Value Grid: $35\ 727 - 6313 = 29\ 414$																																																																				
total	<table border="1"> <tr> <td rowspan="2">Th</td> <td>1000</td><td>1000</td><td>1000</td><td>1000</td></tr> <tr> <td>1000</td><td>1000</td><td>1000</td><td>1000</td></tr> <tr> <td rowspan="2">H</td> <td>100</td><td>100</td><td>100</td><td>100</td></tr> <tr> <td>100</td><td>100</td><td>100</td><td>100</td></tr> <tr> <td rowspan="2">T</td> <td>10</td><td>10</td><td>10</td><td>10</td></tr> <tr> <td>10</td><td>10</td><td>10</td><td></td></tr> <tr> <td>O</td> <td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr> </table> <p>Column Method Starting with the ones, add each column in turn. Regroup tens, hundreds, thousands, ten thousands and/or as required.</p> <div style="border: 2px solid blue; border-radius: 50%; width: 150px; height: 150px; display: flex; align-items: center; justify-content: center; margin: 20px auto;"> $\begin{array}{r} 45864 \\ +23497 \\ \hline 69361 \\ \hline 111 \end{array}$ </div>	Th	1000	1000	1000	1000	1000	1000	1000	1000	H	100	100	100	100	100	100	100	100	T	10	10	10	10	10	10	10		O	1	1	1	1	1	<table border="1"> <tr> <td>TTh</td> <td>10 000</td><td>10 000</td><td>10 000</td></tr> <tr> <td rowspan="2">Th</td> <td>1000</td><td>1000</td><td>1000</td><td>1000</td><td>1000</td></tr> <tr> <td>1000</td><td>1000</td><td>1000</td><td>1000</td></tr> <tr> <td rowspan="2">H</td> <td>100</td><td>100</td><td>100</td><td>100</td></tr> <tr> <td>100</td><td>100</td><td>100</td><td></td></tr> <tr> <td>T</td> <td>10</td><td>10</td></tr> <tr> <td rowspan="2">O</td> <td>1</td><td>1</td><td>1</td><td>1</td></tr> <tr> <td>1</td><td>1</td><td>1</td><td></td></tr> </table> <p>Column Method Starting with the ones, subtract each column in turn. Exchange tens, hundreds, thousands and/or ten thousands as required.</p> <div style="border: 2px solid blue; border-radius: 50%; width: 150px; height: 150px; display: flex; align-items: center; justify-content: center; margin: 20px auto;"> $\begin{array}{r} 35\ 727 \\ - 6313 \\ \hline 29\ 414 \end{array}$ </div>	TTh	10 000	10 000	10 000	Th	1000	1000	1000	1000	1000	1000	1000	1000	1000	H	100	100	100	100	100	100	100		T	10	10	O	1	1	1	1	1	1	1	
Th			1000	1000	1000	1000																																																																
		1000	1000	1000	1000																																																																	
H		100	100	100	100																																																																	
		100	100	100	100																																																																	
T		10	10	10	10																																																																	
		10	10	10																																																																		
O		1	1	1	1	1																																																																
TTh		10 000	10 000	10 000																																																																		
Th		1000	1000	1000	1000	1000																																																																
		1000	1000	1000	1000																																																																	
H		100	100	100	100																																																																	
		100	100	100																																																																		
T	10	10																																																																				
O	1	1	1	1																																																																		
	1	1	1																																																																			
make		2 ten thousands left																																																																				
plus		5 thousands – 6 thousands cannot be done. Exchange ten thousand for ten thousands becoming 15 thousands – 6 thousands = 9 thousands																																																																				
sum		7 hundreds – 3 hundreds = 4 hundreds																																																																				
more		2 tens – 1 ten = 1 ten																																																																				
altogether		7 ones – 3 ones = 4 ones																																																																				
difference																																																																						
subtract																																																																						
less																																																																						
minus																																																																						
take away																																																																						
column addition																																																																						
column subtraction																																																																						
estimate																																																																						
inverse operation																																																																						
number facts																																																																						
place value																																																																						
complex																																																																						

Estimate and Approximate

Rounding to Estimate

$$41\ 635 + 7386 = 49\ 021$$

Round to ten:

$$41\ 630 + 7380 = 49\ 010$$

$$41\ 630 + 7390 = 49\ 020$$

$$41\ 640 + 7390 = 49\ 030$$

Rounding is not as accurate when both numbers are rounded up. A better estimate comes from "rounding" one down and one up.

Estimating on a Number Line



The arrow is about $\frac{3}{4}$ of the way across the line so it is 40 000.



Inverse Operations

Use the inverse to check:

53 476

To check $53\ 476 - 32\ 732 = 20\ 744$

32 732

20 744

use $32\ 732 + 20\ 744 = 53\ 476$

Start with a number, subtract 409 and double. I end with 6264. To find the starting number use the inverse: halve, then add 409. Half of 6264 = 3132. $3132 + 409 = 3541$. The starting number was 3541.

Multistep Problems

Using a Bar Model

The sum of two numbers is 25 567.

The difference is 1875.



Subtract 1875 from 25 567 = 23 692.

Halve 23 692 to find smaller number = 11 846.

Add 1875 to find larger number = 13 721.

£20			£20 is used to buy 2 books costing
£3.75	£8.49	?	£3.75 and £8.49.
£12.24		£7.76	How much change is given?

$$£3.75 + £8.49 = £12.24$$

$$£20.00 - £12.24 = £7.76$$