



Year 5 – Maths – Addition and subtraction

Addition

Place Value Grid: $3274 + 5601 = 8875$



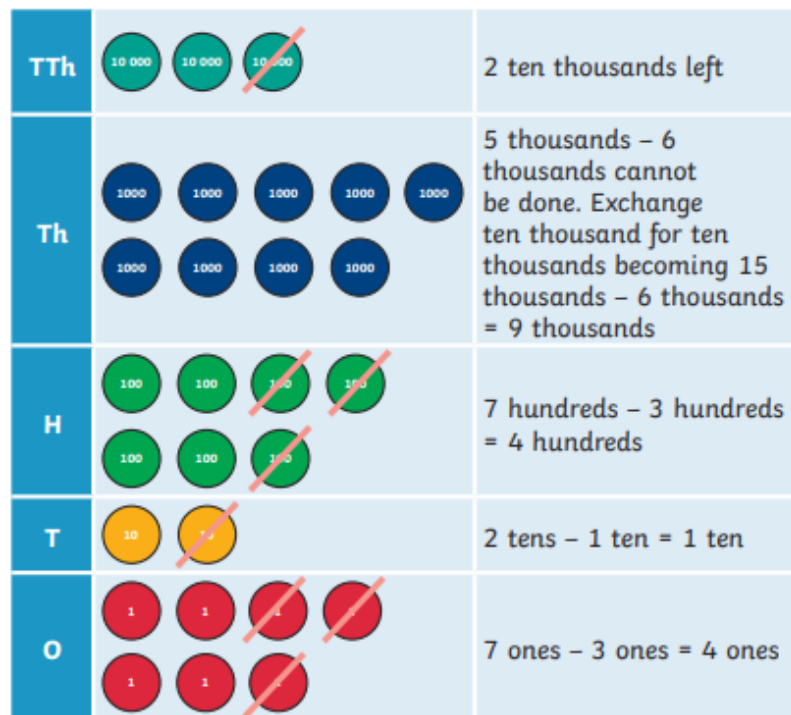
Column Method

Starting with the ones, add each column in turn. Regroup tens, hundreds, thousands, ten thousands and/or as required.

$$\begin{array}{r} 45864 \\ +23497 \\ \hline 69361 \\ \hline 111 \end{array}$$

Subtraction

Place Value Grid: $35\ 727 - 6313 = 29\ 414$



Column Method

Starting with the ones, subtract each column in turn. Exchange tens, hundreds, thousands and/or ten thousands as required.

$$\begin{array}{r} 35\overset{6}{7}2\overset{13}{7} \\ - 6\overset{13}{3}13 \\ \hline 29\overset{6}{4}1\overset{13}{4} \end{array}$$

Key vocabulary

Add
Total
Make
Plus
Sum
More
Altogether
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.



Multistep problems

£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?

$$£3.75 + £8.49 = £12.24$$

$$£20.00 - £12.24 = £7.76$$



Inverse operations

Use the inverse to check:

$$53\ 476$$

$$32\ 732$$

$$20\ 744$$

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

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.



Key questions

What is ____ rounded to the nearest 1000?

Can you estimate the following equation by rounding?

Use inverse to check the following sum...

The answer is _____. What is the question?

Links to other learning

Year 4 – Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate; Estimate and use inverse operations to check answers to a calculation; Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.

Year 6 – Perform mental calculations, including with mixed operations and large numbers; Use their knowledge of the order of operations to carry out calculations involving the 4 operations; Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why; use estimation to check answers to calculations and determine an appropriate degree of accuracy.