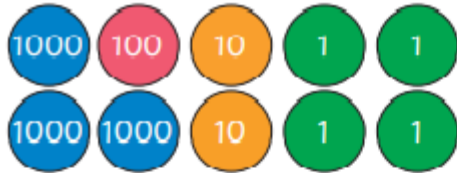




Add and subtract 1s, 10s, 100s, 1000s



Here is the number 3124



Add 2 thousands = 5124

Add 5 hundreds = 5624

Subtract 2 tens = 5604

Add 5 ones = 5609

Here is the number 6708

Thousands	Hundreds	Tens	Ones
6	7	0	8

Add 3 thousands = 9708

Subtract 4 hundreds = 9308

Add 5 tens = 9358

Subtract 7 ones = 9351

Crossing ones, tens or hundreds

$5392 + 4 \text{ tens} = 5432$ crossing tens

$5126 - 600 = 4526$ crossing hundreds

When crossing ones, tens or hundreds, more than one digit will change.

Round to estimate

$$1635 + 386 = 2021$$

Round to the nearest ten

$$1640 + 390 = 2030$$

Round to the nearest hundred

$$1600 + 400 = 2000$$

Both give a reasonable estimate, but rounding the nearest ten is more accurate.

$$9362 - 5729 = 3622$$

Round to the nearest hundred

$$9400 - 5700 = 3700$$

Round to the nearest thousand

$$9000 - 6000 = 3000$$

Rounding to the nearest hundred is much more accurate in this case.

Key questions

What is ____ rounded to the nearest 100?

Can you estimate the following equation by rounding?

Subtract the following using a number line...

The answer is _____. What is the question?

Links to other learning

Year 3 – Add and subtract numbers mentally, including: a three-digit number and 1s; a three-digit number and 10s; a three-digit number and 100s. Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction; Estimate the answer to a calculation and use inverse operations to check answers; Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.

Year 5 – Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction); Add and subtract numbers mentally with increasingly large numbers; Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.



Year 4 – Maths – Addition and subtraction

Add 4-digit numbers



No exchange

$$\begin{array}{r} 5162 \\ +3427 \\ \hline 8589 \end{array}$$

Starting with the ones, add each column in turn.

One exchange

$$\begin{array}{r} 5162 \\ +3497 \\ \hline 8659 \\ \hline 1 \end{array}$$

Starting with the ones, add each column in turn. When adding

6 tens + 9 tens = 15 tens

= 1 hundred + 5 tens

Place 1 hundred under the hundreds answer and 5 tens in the answer.

Multiple exchanges

$$\begin{array}{r} 5864 \\ +3497 \\ \hline 9361 \\ \hline 111 \end{array}$$

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

Subtract 4-digit numbers



No exchange

$$\begin{array}{r} 5789 \\ -3421 \\ \hline 2368 \end{array}$$

Starting with the ones, subtract each column in turn.

One exchange

$$\begin{array}{r} 61 \\ 5749 \\ -3471 \\ \hline 2278 \end{array}$$

Starting with the ones, subtract each column in turn. When subtracting 4 tens - 7 tens, exchange 1 hundred to make:

14 tens - 7 tens = 7 tens

Multiple exchanges

$$\begin{array}{r} 6131 \\ 5742 \\ -3476 \\ \hline 2266 \end{array}$$

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

Key vocabulary

Add

Total

Plus

Sum

More

Altogether

Difference

Subtract

Less

Minus

Take away

Mentally, Orally

Column Addition

Column Subtraction

Exchange

Estimate

Inverse operation

Solve problems

Number facts

Efficient subtraction



Calculate $6000 - 3617 = 2383$

