

16.11.20

WALT Use the Formal Written Method of Addition

F
R
PS

Vocabulary

add addition

formal written method

columns digits

thousands hundreds

tens ones

Th H T O

one digit in one square

Daily 10

Practise of number bonds to 10 or 20

Next, add the ones and carry any tens to the tens column.

$$\begin{array}{r} 1353 \\ + 3348 \\ \hline 11 \end{array}$$

For each question, would you use a mental method or a written method? Why?

$54 + 46 =$

$540 + 460 =$

$\text{£}3.62 + \text{£}4.78 =$

$34 + 50 =$

$1547 + 5789 =$

$3576 + 4000 =$

Let's have a go together

$$1353 + 3348 =$$

First, line the digits up in the correct columns.

$$\begin{array}{r} 1353 \\ + 3348 \\ \hline \end{array}$$

Now, add the tens column.

If there's a carried digit, don't forget to add it too.

Write any new carried digits in the hundreds column this time.

$$\begin{array}{r} 1353 \\ + 3348 \\ \hline 1101 \end{array}$$

This time, add the hundreds column

Remember to add the carried digit too (if there is one).

Write any new carried digits in the thousands column this time.

$$\begin{array}{r} 1353 \\ + 3348 \\ \hline 11701 \end{array}$$

To finish the addition, add the thousands column.
Check that you have added in the carried digit too
(if there is one).

$$\begin{array}{r} 1353 \\ + 3348 \\ \hline 4701 \end{array}$$

Finally, check your addition and make sure that your answer makes sense.

$$\begin{array}{r} 1353 \\ + 3348 \\ \hline 4701 \end{array}$$



Let's try these together

$3764 + 2185 =$

$6583 + 2709 =$

Fluency

A		B	
1.	$265 + 317 -$	1.	$4823 + 2657 -$
2.	$357 + 129 -$	2.	$7265 + 1469 -$
3.	$542 + 381 -$	3.	$5169 + 3782 -$
4.	$364 + 492 -$	4.	$3275 + 5698 -$
5.	$536 + 257 -$	5.	$5938 + 2086 -$
6.	$259 + 562 -$	6.	$4267 + 3945 -$
7.	$434 + 487 -$	7.	$2859 + 6472 -$
8.	$574 + 369 -$	8.	$6485 + 4736 -$
9.	$675 + 748 -$	9.	$7543 + 2869 -$
10.	$795 + 549 -$	10.	$6374 + 7896 -$

Reasoning 1

1,000s	100s	10s	1s
1,000 1,000 1,000	100 100	10 10 10 10	1 1
+ 1,000 1,000	100 100	10	1 1 1

Use the formal written method of addition to write out the calculation that has been shown with place value equipment.

Reasoning 2

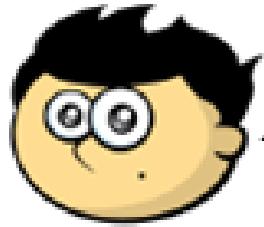
1,000s	100s	10s	1s
1,000 1,000 + 1,000	100 100 100	10 10 10 10 10 10	1 1 1 1 1 1 1 1 1
+ 1,000 1,000	100 100 100 100	10 10 10	1 1 1 1 1 1

Use the formal written method of addition to write out the calculation that has been shown with place value equipment.

Explain the method using mathematical vocabulary.

Reasoning 3

Luke says:



When I add two 4-digit numbers together, I will only ever carry a 1 into the next column.

Is Luke correct? Explain your answer using mathematical vocabulary.

Problem Solving 1

$$\begin{array}{r} 4 \square 6 \square \\ + 2 5 \square 1 \\ \hline \square 7 8 9 \end{array}$$

What are the missing digits from this calculation?

Explain how you know.

Problem Solving 2

Daniel bought a new laptop costing £1265 and a new mobile phone costing £492.

How much has Daniel spent altogether?

Daniel's friend, Paul, bought a smart watch for £342.

What is the total amount spent by the two friends?

