

0 4 . 1 0 . 2 1

NASTY MATHS!

WALT solve multi-step problems



At a cricket match there are 7,114 adults in the crowd.
There are 2,009 fewer children than adults.
How many people attend the match?

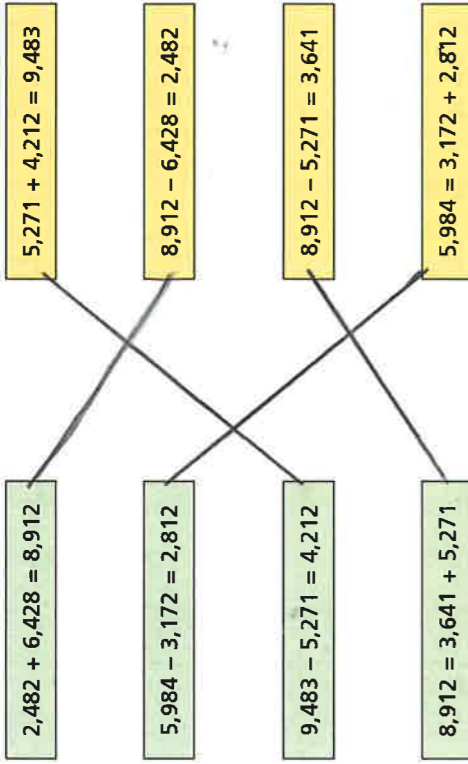
$$\begin{array}{r}
 1. \quad 7,114 \\
 - 2,009 \\
 \hline
 5,105
 \end{array}$$

5105 children ✓

$$\begin{array}{r}
 2. \quad 7114 \\
 + 5105 \\
 \hline
 12219
 \end{array}$$

✓

5 Match the inverse calculations.



6 Complete the calculations. Use inverse operations to check your answers.

a) $763 + 4,072 =$

$$\begin{array}{r}
 4072 \\
 + 763 \\
 \hline
 4835
 \end{array}$$

b) $8,711 - 1,053 =$

$$\begin{array}{r}
 8711 \\
 - 1053 \\
 \hline
 7658
 \end{array}$$

Multi-step addition and subtraction problems

1 Eva is reading a book before bedtime. On Monday she reads 38 pages. On Tuesday she reads 6 pages more than she did on Monday.

a) How many pages does she read on Tuesday?

b) How many pages does she read altogether on Monday and Tuesday?

c) There are 123 pages in the book altogether. How many pages does Eva have left to read?

2 Here are two number cards.

The sum of the two cards is 2,900. What is the difference between the two cards?

$$\begin{array}{r}
 38 \\
 + 6 \\
 \hline
 44
 \end{array}$$

$$\begin{array}{r}
 44 \\
 + 38 \\
 \hline
 82
 \end{array}$$

$$\begin{array}{r}
 923 \\
 - 82 \\
 \hline
 841
 \end{array}$$

$$\begin{array}{r}
 2,900 \\
 - 800 \\
 \hline
 2,100
 \end{array}$$

27.09.21

WALT: add 4 digit numbers with exchanges.

NASTY MATHS! WALT add 4 digit numbers with exchanges.



Th	H	T	O
2	2	6	3
+			
6	3	5	2

8	6	1	5

Th	H	T	O
2	2	6	3
+			
9	3	5	8

1	1	6	2



2. I started in the ones and did $3+8$ which is 11. I put the 1 in the box and then carried over and put the one underneath the box. Then I did $6+5$ which is $11+1=12$ so then I put the 2 in the box and carried over again. $2+3=5+1=6$.

Add two 4-digit numbers – more than one exchange

1 Complete the calculation.

Th	H	T	O
2	1	7	6
+			
3	4	5	8

5	6	3	4

+

Th	H	T	O
2	1	7	6
+			
3	4	5	8

5	6	3	4

2 Who has got each question correct? Tick your answer.

a) Nijah

Th	H	T	O
4	4	5	
+			
3	4	8	

7	8	1	3

Scott

Th	H	T	O
4	4	5	
+			
3	4	8	

7	9	3	1

$$\begin{array}{r} 445 \\ + 348 \\ \hline 793 \end{array}$$

Scott is correct. Nijah put 2 numbers in the same column. Nijah also, when they did $5+8$ instead of doing $8+1$ and carrying over which is correct they put the tens in the hundreds column.

Scott

Th	H	T	O
4	8	2	6
+			
1	7	8	

5	0	0	4

Nijah

Th	H	T	O
4	8	2	6
+			
1	7	8	

6	6	0	6

What mistake has the other person made in each calculation?

Talk about it with a partner.

3 Complete the additions.

a) $3,784 + 2,526$

Th	H	T	O
4	7	1	2
+			
3	4	9	2

8	2	0	4

b) $79 + 654 + 1,312$

Th	H	T	O
6	0	7	5
+			
	9	4	8

$$\begin{array}{r} 4826 \\ + 178 \\ \hline 5038 \\ 114 \end{array}$$

Nijah did not line it up in the right place value columns.

15.09.21

WALT: apply and consolidate our rounding knowledge.

Circle all the numbers that:

a) round to 23,000 when rounded to the nearest 1,000

23,587 23,399 22,980 22,675 22,003 23,033

1 thousand

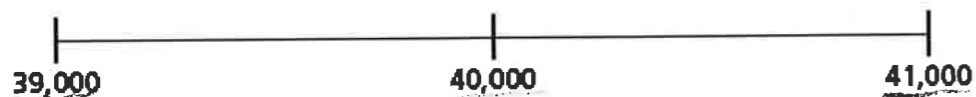
I solved the problem by firstly reading the question. This told me to use my rounding knowledge. To round to the nearest thousand, you have to go to the hundred column to work it out. So 23,339, there is a 3 in the thousands column, if you have a 0-4 fall to the floor, therefore this rounds down to 23,000.

5 Mo rounds a number to the nearest 1,000



My answer is 40,000

a) Write three numbers Mo could have started with. Use the number line to help you.



39,678 39,500 40,100

b) What is the smallest number Mo could have started with?

39,500

I solve The first thing I did was, read the question. This told me to use my rounding knowledge. 39,678 can be ~~read~~ rounded to the nearest 1000 is 40,000 because when you round to the nearest 1000 you need to look in the hundred column, the 6 is in 5-9 where you climb the vine.

-7 16.09.21

3 Complete the table.

Numerals	550,000	600,000	850,000	762,000
Words	five hundred and fifty thousand	six hundred and twenty thousand	eight hundred and 50 thousand	seven hundred and sixty-two thousand

4 a) Circle all the numbers that have 2 in the hundreds column.

295 2,095 19,216 200,000

b) Write three more numbers that have a 2 in the hundreds column.

Each number should have a different number of digits.

5 Write the value of the 3 in each number.

- a) 387
- b) 5,306
- c) 7,903
- d) 307,612
- e) 531,476
- f) 603,956