




Monday 15th June Y4 Maths

Good morning Y4s, I hope you have had a good weekend. Here is today's maths. We are revising subtraction using the formal columnar method. Watch the teaching video at <https://vimeo.com/428000367> and then complete the questions below.

Subtract two 4-digit numbers – more than one exchange

- 1 Kim has made a number using base 10

Th	H	T	O
			

- a) Subtract 8 from Kim's number.

- b) Explain the method you used.

- c) Subtract 20 from Kim's number.

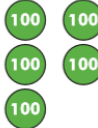


- d) Subtract 900 from Kim's number.

- e) Complete the subtractions.

$1,702 - 28 = \boxed{}$

$1,702 - 928 = \boxed{}$

- 2 Use the place value chart to complete the subtractions.

H	T	O
		



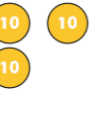

a) $564 - 354 = \boxed{}$ c) $564 - 365 = \boxed{}$

b) $564 - 355 = \boxed{}$

Look at your calculations in parts a), b) and c).

What is the same? What is different?

- 3 Use the place value chart to complete the subtractions.

Th	H	T	O
			

a) $5,435 - 2,036 = \boxed{}$

b) $5,436 - 2,036 = \boxed{}$

c) $5,437 - 2,036 = \boxed{}$

Look at your calculations in parts a), b) and c).

What is the same? What is different?

Don't forget to record the calculations using the columnar method in your maths books.

When you have finished find the answers to these questions and Friday's challenge at the end. I have also set **a new challenge** today.

4 Complete the calculations.

a)

		Th	H	T	O
		7	3	2	5
	-	2	4	0	6

c)

		Th	H	T	O
		7	1	0	2
	-		3	9	8

b)

		Th	H	T	O
		5	6	3	4
	-	2	7	4	5

d)

		Th	H	T	O
		5	0	0	0
	-	1	7	3	3

5 A jug contains 1,500 ml of juice.



The juice is poured into 2 glasses.
Each glass holds 258 ml of juice.
How much juice is left in the jug?



6 Work out the missing digits.

a)

		Th	H	T	O
		7			4
	-	1	2	3	
			9	5	8

b)

		Th	H	T	O
		4	0		3
	-			3	8
			8	4	

7 Arrange all the digit cards to make a possible subtraction for each description.



a) There are 2 exchanges.
The answer is
less than 2,000

-			

b) There are 2 exchanges.
The answer is
greater than 4,000

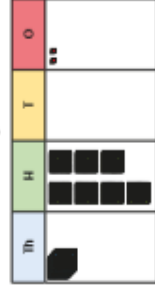
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c) There are 3 exchanges.

-			

Subtract two 4-digit numbers – more than one exchange

- 1 Kim has made a number using base 10



- a) Subtract 8 from Kim's number.

1,694

- b) Explain the method you used.

Exchange 1 hundred for 10 tens. Then 1 ten for 10 ones.

- c) Subtract 20 from Kim's number.

1,682

- d) Subtract 900 from Kim's number.

802

- a) Complete the subtractions.

$$1,702 - 28 = 1,674$$

$$1,702 - 928 = 774$$

- 2 Use the place value chart to complete the subtractions.



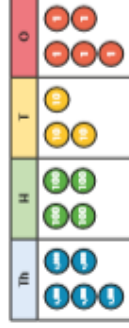
$$a) 564 - 354 = 210$$

$$d) 564 - 365 = 199$$

$$b) 564 - 355 = 209$$

Look at your calculations in parts a), b) and c). What is the same? What is different?

- 3 Use the place value chart to complete the subtractions.



$$a) 5,435 - 2,036 = 3,399$$

$$b) 5,436 - 2,036 = 3,400$$

$$c) 5,437 - 2,036 = 3,401$$

Look at your calculations in parts a), b) and c). What is the same? What is different?

- 4 Complete the calculations.

$$a) \begin{array}{r} \text{Th} \text{ H} \text{ T} \text{ O} \\ 27325 \\ - 2406 \\ \hline 14919 \end{array}$$

$$c) \begin{array}{r} \text{Th} \text{ H} \text{ T} \text{ O} \\ 27102 \\ - 398 \\ \hline 6704 \end{array}$$

$$b) \begin{array}{r} \text{Th} \text{ H} \text{ T} \text{ O} \\ 5634 \\ - 2745 \\ \hline 2889 \end{array}$$

$$d) \begin{array}{r} \text{Th} \text{ H} \text{ T} \text{ O} \\ 5000 \\ - 1733 \\ \hline 3267 \end{array}$$

- 5 A jug contains 1,500 ml of juice.



The juice is poured into 2 glasses. Each glass holds 258 ml of juice. How much juice is left in the jug?

984

- 6 Work out the missing digits.

$$a) \begin{array}{r} \text{Th} \text{ H} \text{ T} \text{ O} \\ 714 \\ - 1236 \\ \hline 598 \end{array}$$

$$b) \begin{array}{r} \text{Th} \text{ H} \text{ T} \text{ O} \\ 403 \\ - 238 \\ \hline 165 \end{array}$$

- 7 Arrange all the digit cards to make a possible subtraction for each description.

$$a) \begin{array}{r} 01234567 \\ - \end{array}$$

There are 2 exchanges. The answer is less than 2,000.

$$\begin{array}{r} 2353 \\ - 1064 \end{array}$$

There are 2 exchanges. The answer is greater than 4,000.

$$\begin{array}{r} 7640 \\ - 2351 \end{array}$$

There are 3 exchanges.

$$\begin{array}{r} 7420 \\ - 6531 \end{array}$$

Answer to Friday's challenge – The Deca Tree

There are 10 leaves per twig

There are 10 twigs per branch

$10 \text{ leaves} \times 10 \text{ twigs} = 100 \text{ leaves per branch}$

There are 10 branches per trunk

$100 \text{ leaves} \times 10 \text{ branches} = 1000 \text{ leaves per trunk}$

There are 10 trunks per tree

$1000 \text{ leaves} \times 10 \text{ trunks} = 10\,000 \text{ leaves on the tree}$

Cut off one trunk: $10\,000 - 1000 = 9000 \text{ leaves left}$

Cut off one branch: $9000 - 100 = 8900 \text{ leaves left}$

Cut off one twig: $8900 - 10 = 8890 \text{ leaves left}$

Pull off one leaf: $8890 - 1 = 8889 \text{ leaves left}$

There are 8889 leaves left on the tree.

Today's Challenge below:

Fifteen Cards

I have fifteen cards numbered 1 — 15.

I put down seven of them on the table in a row.



The numbers on the first two cards add to 15.

The numbers on the second and third cards add to 20.

The numbers on the third and fourth cards add to 23.

The numbers on the fourth and fifth cards add to 16.

The numbers on the fifth and sixth cards add to 18.

The numbers on the sixth and seventh cards add to 21.

What are my cards?

Can you find any other solutions?

How do you know you've found *all* the different solutions?