Summer week 2 Lesson 5

Can I subtract 4 digit numbers with exchanging?

Fast Five - answers are on the next slide! 1) What is double 52?

- 2) What type of triangle is this?
- 3) 6 x 300 =



5) Mully is hiding behind the largest multiple of 8 without going past 52. Where is Mully?



Fast Five - answers are on the next slide!1) What is double 52? 104

2) What type of triangle is this? Equilateral

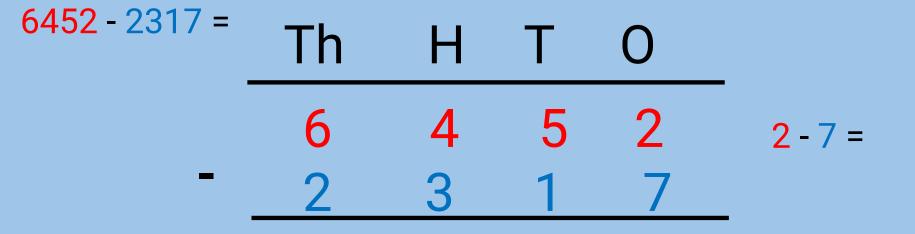


- 3) 6 x 300 = 1800
- 4) 50 x 70 = **3500**
- 5) Mully is hiding behind the largest multiple of 8 without going past 52. Where is Mully? **48**

When subtracting with 4 digits, we use the same method as we do for addition... column method! Except we are subtracting! It is the same method as you did when subtracting 3 digits.

7465 - 3212 =	Th	Η	Т	0	
<mark>5 - 2 = 3</mark>	7	4	6	5	
60 - 10 = 50 - 400 - 200 = 200	3	2	1	2	
7000 - 3000 = 200	4	2	5	3	-

When subtracting, sometimes the number we are trying to subtract in the column is bigger than the number above it. When this happens, we have to exchange with the number in the next column.



2 - 7 =

7 is larger than 2, so we need to exchange from the next column along, the tens column.

We take 1 ten (10 ones) from the 50, which leaves 40.
 Th
 H
 T
 O

 6
 4
 45
 2

 2
 3
 1
 7

2-7 → **12-7**

And add the 10 onto the 2 to make 12.

12 - 7 = 5

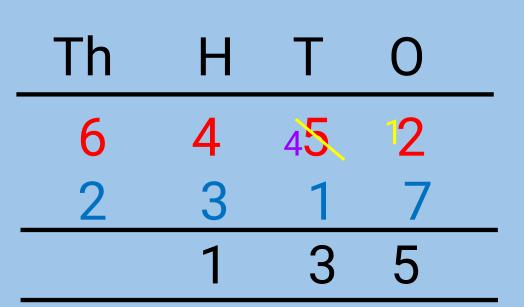


Once we've completed the subtraction from the ones column, we move onto the tens column. If we have exchanged, we need to remember to use the NEW number, not the original one!

It is not <mark>50</mark> - 10		Th	Н	Т	0	
It is now	-	6	4	45	12	
40 - 10 = 30	-	2	3	1	7	
				3	5	

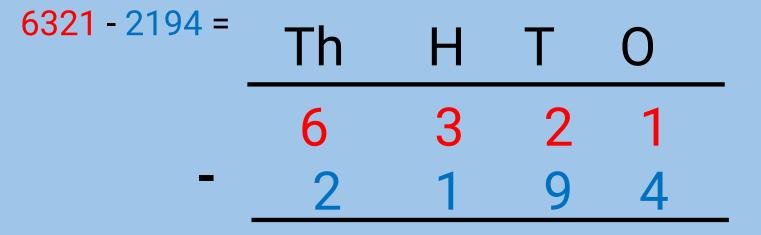
Now we are going to subtract the hundreds.

400- **300** = 100



Lastly, we subtract the thousands column.

When subtracting, sometimes the number we are trying to subtract in the column is bigger than the number above it. When this happens, we have to exchange with the number in the next column.



We take 1 hundred (10 tens) from the 300, which leaves 200.

9 is larger than 2, so we need to exchange from the next column along, the tens column.

And add the **100** onto the Th н 10 to make 110. 12 So 1 - 9 → 110 - 90 = 20 6

We take 1 hundred (10 tens) from the 300, which leaves 200.

 $200 \rightarrow 100 = 100$ Th H T O 6 23 112 11 200 - 23 12 1 - 2 1 9 4 - 1 2 7



6000 - 2000 = 4000НТ Th ()6 23 112 11 2 2

Try this question! The answer is on the next slide!

6421 - 3158 =

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

6421 - 3158 =

Th H T O

 6
 3
 4
 1
 1
 2
 1

 3
 1
 5
 8

3 2 6 3

Activity: Complete the subtraction questions.

You MUST show all of your working out!

Remember to use the column method. It can get very messy when exchanging so be sure to make your work as clear as possible!