Hello,

Hope you had a lovely half term and got out to enjoy the sunshine. I did see one of you out on a bike ride, thank you for saying hello.

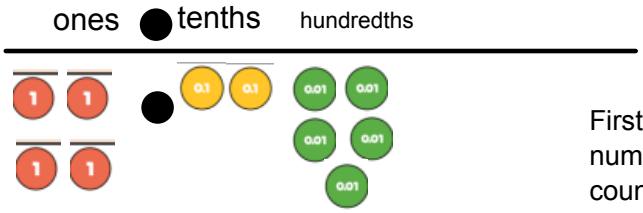
Last time we were looking at different methods for adding decimals. I'm sure you found some of the methods easier than others! Different people work in different ways, so hopefully you all found a method that you understood and could work with.

This time we are going to look at subtracting decimals.

Jun 1-13:52

So, as when we were adding decimals, we can use a place value chart and counters to help us work out the answer when subtracting decimals.

4.25 - 2.13



First of all make your number using place value counters.

So, I have made 4.25

Jun 1-14:10

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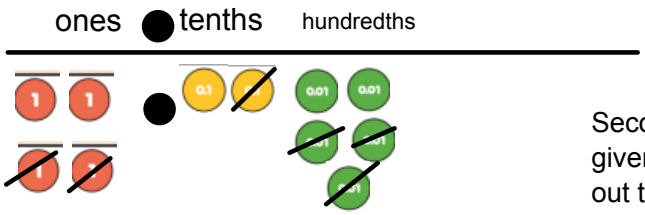

Secondly, subtract the given number by crossing out the relevant counters.

Tip: Start with the final column (in this case the hundredths), just in case we need to exchange.

Jun 1-14:10

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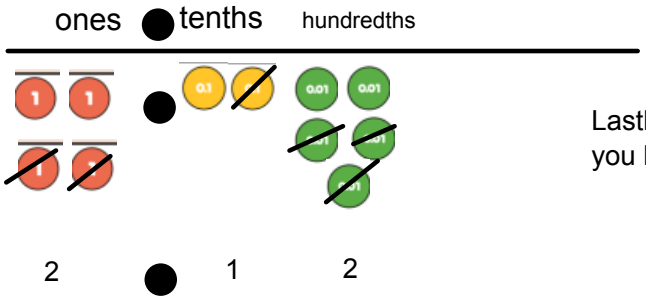
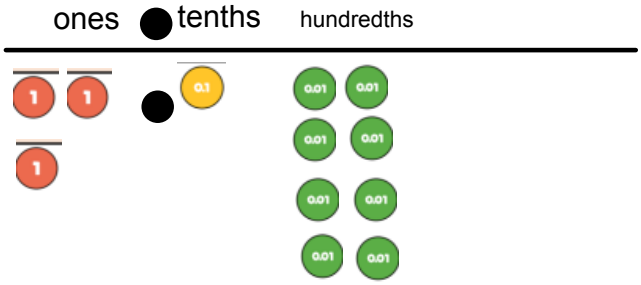


Lastly, look at the counters you have left.

Jun 1-14:10

That example was quite a simple one - as it did not need any exchange, so let us look at a slightly trickier example.

3.18 - 1.35



First of all make your number using place value counters.

So, I have made 3.18

Jun 1-14:33

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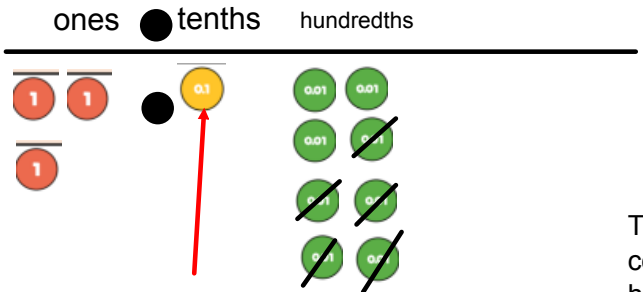
3.18 - 1.35



Secondly, subtract the given number by crossing out the relevant counters.

Tip: Start with the final column (in this case the hundredths), just in case we need to exchange.

I need to subtract

3 tenths, but I only have 1 tenth.

I need to exchange a 1 from my

ones column for ten tenths (because

10/10 are equivalent to 1 whole)

Jun 1-14:33

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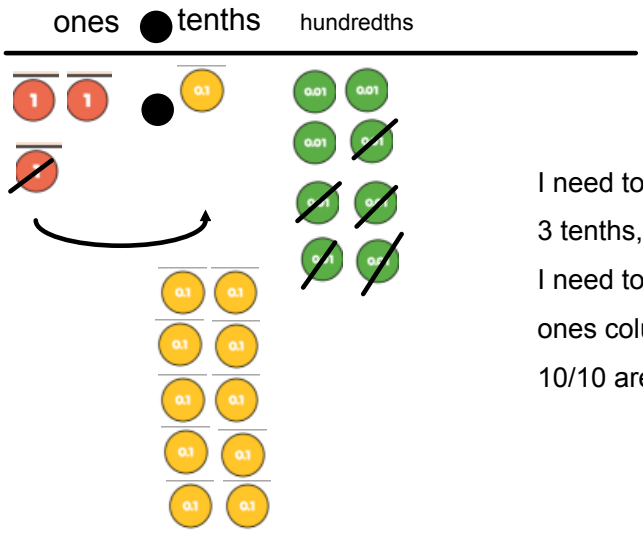

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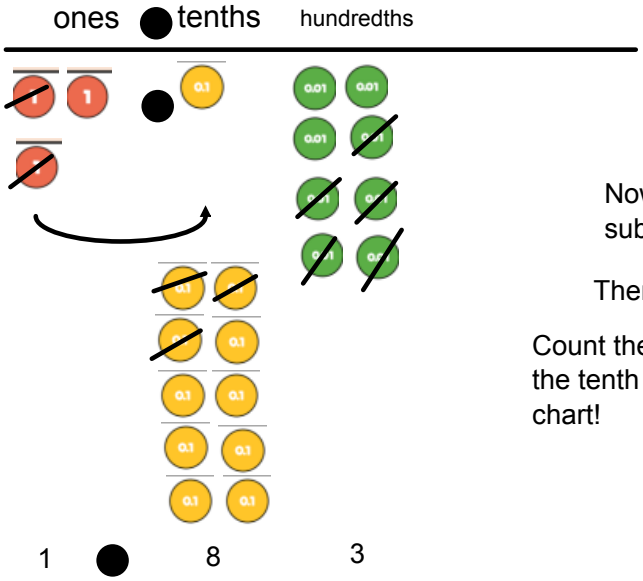


Now I have exchanged I can subtract 3 tenths.

Then I can subtract my 1

Count the counters left. Don't forget the tenth up near the top of the chart!

Jun 1-14:33

Try these calculations using the place value chart.

5.67 - 2.41

3.72 - 1.15

5.28 - 1.62

Jun 1-15:12

We can also use column method to subtract our decimal numbers.

```
  5.67
- 3.45
  2.22
```

start with the smallest place value column, in case you need to exchange.

Tip: Remember from your last piece of work, when you were adding decimals, that you need to make sure that the same place values line up. ones under ones, tenths under tenths and so on. Lining up the decimal point can help with this.

Jun 1-15:15

Sometimes we may have to use exchange.

```
  7.82
- 4.15
  3.67
```

2 - 5

I can't do, so I need to exchange.

```
    7 1
  7.8 2
- 4.1 5
  3.6 7
```

Jun 1-15:15

Try these using the column method.

7.49 - 1.32

4.81 - 3.25

6.38 - 2.71

12.45 - 6.11

Jun 1-15:28

On the last calculation, were you careful when lining up your calculation?

Remember to take extra care when the numbers you are working with have a different number of decimal places.

Tip: Use your 0 as a place holder to make your numbers have the same number of decimal places.

3.67 - 1.252 you could set out as

$$\begin{array}{r} 3.670 \\ -\ 1.252 \\ \hline \\ \hline \end{array}$$

The 0 place holder helps to line everything up. It also helps you to see that you need to exchange.

Jun 1-15:29

Try these;

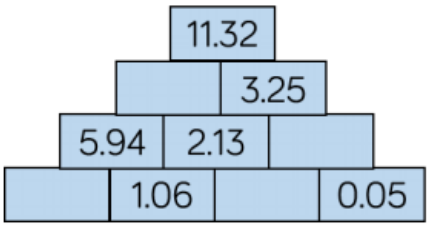
7.34 - 1.128

6.452 - 3.17

4.8 - 1.111

Jun 1-15:39

In this number pyramid, each number is calculated by adding the two numbers underneath.



Jun 1-15:41

Eva is trying to find the answer to

4.144 + 1.4

Here is her working out.

$$\begin{array}{r} 4.144 \\ +\ \ 1.4 \\ \hline 4.248 \end{array}$$

Can you spot and explain her error?

Work out the correct answer.

Jun 1-15:43

Place the calculations in the correct column in the table.

9.99 + 0.1 | 9.99 + 1 | 9.99 + 0.001 | 9.99 + 0.01

Some calculations might need to go in more than one place.

No exchange	Exchange in the ones column	Exchange in the tenths column	Exchange in the hundredths column	Exchange in the thousandths column

Add 2 more calculations to each column.

Jun 1-15:43