This week's Learning:

Adding and Subtracting Decimals

First, we will practise to add and subtract decimals using the column method. Next, you will create a set of instructions and questions for somebody who hasn't worked with decimals before.

Ready or not we'll start!



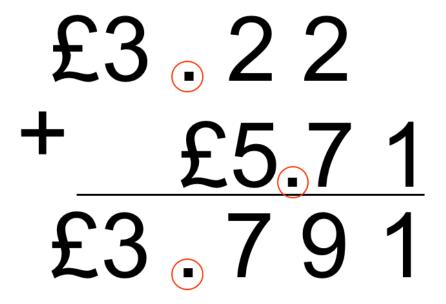
The **RUCSAC** Method for solving maths word problems

R	Read the question carefully	Find the important information - <u>underline</u> it!
U	<u>Understand</u> the question	What do you have to find out? Draw a 'picture' of the question, if it helps.
C	Choose the correct method of calculation	+ - x ÷ What method is best for you to use?
S	Solve the problem	Show every step and keep your working out neat.
A	Answer the question	Read the question again - have you answered it? Make the answer clear.
C	<u>Check</u> your answer	Does it make sense? Find a way to check - estimate or use the inverse.

I bought a new book costing £3.22 and a new pen which cost £5.71.

How much did I spend in total?

I want to add £3.22 and £5.71



Am I correct?

The golden rule:

The decimal points <u>MUST</u> be aligned before adding the numbers.

Your turn[©]

£5.26 £2.52 +£4.49 +£4.34

£4.18 +£3.75 £7.93

£2.89 +£1.58 This technique doesn't just work for money. It works for any decimal addition as long as you align the decimal points.

Sometimes it helps to

introduce a place

holder zero, so that each number has the 3.5/ same number of DECIMAL PLACES. ⁺5.49

This place holder zero can only ever be put on the very beginning or the very end.

5.59 +3.50 9.09 The golden rule:

The decimal points MUST be aligned before adding the numbers.

Where necessary, add the place holder zeros to help.

Main Activity

Work out the following in your book:

(a)
$${}^{4}_{5}{}^{15}_{6}{}^{13}$$
 (b) 704 (c) $13.7 - 4.56$ (d) $9 - 2.475$ -285 -439 13.70 -04.56 -2.475

Challenge:

Write down a set of instructions for someone who wasn't in the lesson so they will be able to add and subtract decimals. Then write 8 questions for them to practise, 2 easy, 2 slightly harder, 2 hard and two really hard.

More activities to practise are added separately.

Have fun!