To use a calculator to create number sequences

Steps to Success:

- 1) I know if my calculator needs 'a constant'
- 2) I can create a number sequence using a constant
- 3) I can solve a number sequence using a constant



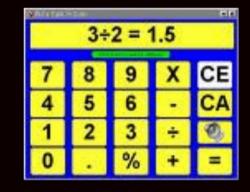
Mental Warm Up:

Solve these questions on your calculator...

$$20 \times 4 =$$

$$99 \div 3 =$$

Could you do any of these in your head?



If so, is it quicker to use a calculator or your brain?

Mental Warm Up 2:

Solve these questions on your calculator or in your head...

435 - 235

£3.44 - £2.08

0.7 - 3.3

17 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 =

You should get a negative answer for number 3

The last one can be done more easliy...

Look at this question:

The '4' in this question is called a 'constant' because your a constantly adding the same number!



A calculator can make adding constant easily.

For some calculators, you just need to keep pressing = eq: Press 4 5 + 4 = = = = = = = = =

For some, you need to press + 2 times to tell the calculator that you want to use a constant:

Which kind of calculator do you have?

Number sequences:

It is easy to make number sequences with calculators:

88, 82, 76, 70, 64, ____, ____

For the above I put 88 into my calculator and subtracted 6 using a constant. Use your calculator to find the next 3 numbers.

Try this one, work out the constant first...

3, 6, 12, 24, 48, 96, ____, ____

Hint:

Try the constant as \times 2

What about this...

4562, 4238, 3914,

Hint: -324

With a partner, make some number sequences using the constant on a calculator.

Try to use different operations, +, -, \div and \times There should be 6 numbers in your sequence.