

Maths Lesson 3: LO: To add whole numbers & decimals using column addition.

Add the **least significant digits** first (i.e. start with the smallest value)

Use a place value grid to set the calculation out vertically, like Step 1 of the example below.

Remember when you are adding up each place value column to exchange up if you need to. Just like in Step 2 of the example.

Don't forget to add the digit that you have exchanged up to the other digits in that column. Just like in Step 3 of the example.

Written method

$$\begin{array}{r} \text{Step 1} \\ \begin{array}{r} \text{T} \quad \text{U} \\ 6 \quad 5 \\ + 2 \quad 7 \\ \hline \end{array} \\ \hline \end{array}$$

$$\begin{array}{r} \text{Step 2} \\ \begin{array}{r} \text{T} \quad \text{U} \\ 6 \quad 5 \\ + 2 \quad 7 \\ \hline \quad 2 \\ \hline \end{array} \\ \hline \end{array}$$

$$\begin{array}{r} \text{Step 3} \\ \begin{array}{r} \text{T} \quad \text{U} \\ 6 \quad 5 \\ + 2 \quad 7 \\ \hline 9 \quad 2 \\ \hline \end{array} \\ \hline \end{array}$$

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$$\begin{array}{r} 3.56 \\ + 2.47 \\ \hline 6.03 \end{array}$$

When adding decimals the same rules apply – line up columns in place value order and begin at the smallest value column. Any exchanging up goes underneath the next column.

$$\begin{array}{r} 40.120 \\ + 26.851 \\ \hline 42.876 \end{array}$$

When adding decimals with a different number of decimal places line up columns in place value order and insert 0 as a place holder for the final column.

Links:

<https://www.bbc.co.uk/bitesize/topics/zy2mn39/articles/z3kmrwx>

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REMEMBER:

ALWAYS LINE UP YOUR PLACE VALUE COLUMNS – INCLUDING THE DECIMAL PLACE

ALWAYS START WITH THE SMALLEST PLACE VALUE COLUMN

IF YOU ADDING NUMBERS WITH A DIFFERENT AMOUNT OF DECIMAL PLACES ADD "0" AS A PLACE HOLDER.

EXCHANGE NUMBERS UNDERNEATH AND REMEMBER TO INCLUDE THEM WHEN YOU ADD.

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Have a go:

A) $641 + 239$

B) $858 + 433$

C) $3,961 + 276$

D) $6,537 + 6,431$

E) $6,538 + 6,431$

F) $3.4 + 5.9$

G) $64.1 + 23.7$

H) $85.8 + 43.3$

I) $31.25 + 42.76$

J) $31.4 + 29.56$