

WALT solve problems with decimals.

WILF:

Use place value columns to help you.

Read the problem carefully to find the operation needed.

Add/ subtract/ order carefully.



This week we are going to be using our decimals knowledge to solve problems, so that we know how to handle decimals in lots of different situations.

Remember: if you get stuck with decimals, make yourself a place value column to help you see the size of the digits you are dealing with.

← Larger		Smaller →		
Tens	Ones	Tenths	Hundredths	Thousandths

decimal point



Word problems

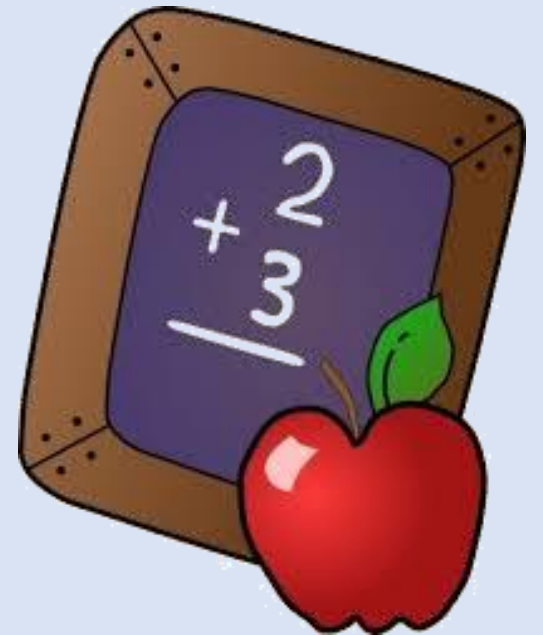
When we are solving word problems, we need to use our mathematical vocabulary to find the operation that we need to use. Always read the question carefully, underline the key words - these will tell you what to do. *For decimals, you are likely to come across these.*

addition		+
<ul style="list-style-type: none">• add• more• plus• make	<ul style="list-style-type: none">• sum• total• altogether	<p>How many more to make...?</p> <p>How many more is... than...?</p> <p>How much more is...?</p>
subtraction		-
<ul style="list-style-type: none">• subtract• minus• leave• less	<ul style="list-style-type: none">• take away• difference between	<p>How many are left over?</p> <p>How much less is... than...?</p> <p>How many fewer is...?</p>

If you are asked to **combine, how much more, to calculate an increase**, you will need to use addition.

Remember: adding decimals is just like adding whole numbers - we line them up using our place value and calculate the digits from right to left. We use 0 as a place holder.

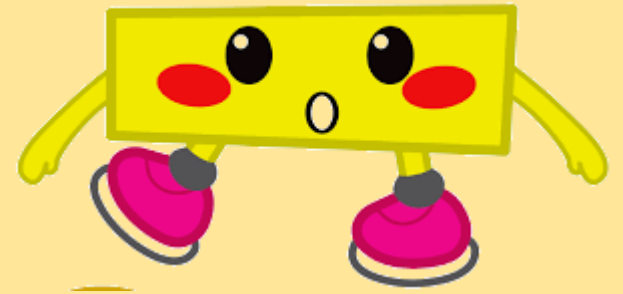
$$\begin{array}{r} 1 \quad . \quad 2 \quad 9 \quad 4 \\ + 0 \quad . \quad 1 \quad 7 \quad 0 \\ \hline 1 \quad . \quad 4 \quad 6 \quad 4 \end{array}$$



If you are asked to find the difference, how much less, to decrease, you will need to subtract.

Again, do this as you would with whole numbers: line them up in place value columns with the decimals all in line, then subtract.

$$\begin{array}{r} 1.294 \\ - 0.170 \\ \hline 1.124 \end{array}$$



To multiply by 10, 100 or 1000:

Move the decimal place once for each 0 to the left.

$$12.713 \times 100 = 1271.3$$

$$127.13 (\times 10)$$

$$1271.3 (\times 100)$$



Now have a go at the activity!

Complete as much as you can today, then finish the rest tomorrow. Once you have finished, explain why you have solved them the way you have to either a teddy or a parent.

Then, if you are confident, have a go at the extra challenge. 😊

