

Adding and Subtracting Decimals

LO: To be able to add and subtract decimals using the column method.

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I bought a new app costing
£3.22 and a new phone case
which cost £5.71

How much did I spend in total?

I want to add £3.22 and £5.71

£3.22

+

£5.71

£3.791

LO: To be able to add and subtract decimals using the column method

The **golden** rule:

- Look after your pet decimal point!
- The decimal points **MUST** be kept in their own box and in their own column so as they can survive!

$$\begin{array}{r} \text{£}3.22 \\ + \text{£}5.71 \\ \hline \text{£}8.93 \end{array}$$

£2.52

+ £4.34

£6.86

£4.18

+ £3.75

£7.93

1

£5.26

+ £4.49

£9.75

£2.89

+ £1.58

£4.47

1 1

This technique doesn't just work for money. It works for any decimal addition as long as you keep the decimal points in their own column.

$$\begin{array}{r} 3.57 \\ + 5.49 \\ \hline 9.06 \\ \text{\scriptsize 1} \quad \text{\scriptsize 1} \end{array}$$

2.70

Sometimes it helps to introduce a place holder zero, so that each number has the same number of DECIMAL PLACES.

+ 5.46

8.16

1

5.59

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

+ 3.50

9.09

1

LO: To be able to add and subtract decimals using the column method

The **golden** rule:

- The decimal points **MUST** be kept in their own box and in their own column so as they can survive!
- Where necessary, add place holder zeros to help.

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Work out the following without a calculator:

(a)
$$\begin{array}{r} \overset{4}{\cancel{5}} \overset{15}{\cancel{6}} \overset{1}{3} \\ - 285 \\ \hline 278 \end{array}$$

(b)
$$\begin{array}{r} \overset{6}{\cancel{7}} \overset{9}{\cancel{10}} \overset{1}{4} \\ - 439 \\ \hline 265 \end{array}$$

(c)
$$\begin{array}{r} \overset{0}{\cancel{1}} \overset{1}{3} . \overset{6}{\cancel{7}} \overset{1}{0} \\ - 04.56 \\ \hline 09.14 \end{array}$$

(d)
$$\begin{array}{r} \overset{8}{\cancel{9}} . \overset{9}{\cancel{10}} \overset{9}{\cancel{10}} \overset{1}{0} \\ - 2.475 \\ \hline 6.525 \end{array}$$

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Complete the questions on the attached sheet **in your homework book.**

Please show all your workings out.