

Adding & Subtracting Decimals

Decimals are a way of expressing numbers that are a **portion of a whole**.

A decimal number is a number that contains decimals, such as 2.315. We use a decimal point to separate any whole numbers (2) from any decimals (0.315).

Ones		Tenths	Hundredths	Thousandths
1 1	•	0.1 0.1 0.1	0.01	0.001 0.001
2	•	3	1	5

The Column Method

Let's use column addition to add 0.473 and 1.24 together!

Line up the numbers by place value.

Remember! Make sure the decimal points of each number are lined up in the same column.

	0	•	T	H	Th
	0	•	4	7	3
+	1	•	2	4	

Add the numbers, column by column, starting with the rightmost column.

If there is an **empty space in the column**, use **zero** as a placeholder.

						-						
												3
+	1	•	2	4	0		+	1	•	2	4	0
	0	•	4	7	3			0	•	4	7	3
	0	•	T	Н	Th			0	•	T	Н	Th

3 Continue solving each column one by one, going left.

> If the answer to the column is in the double digits, **exchange** 10 tenths for 1 whole, 10 hundredths for 1 tenth or 10 thousandths for 1 hundredth.

	U	•		П	In				U	•	ا ا	П	l n
	0		4	7	3				0		4	7	3
+	1		2	4	0		7	+	1	•	2	4	0
				1	3						7	1	3

Bring down the **decimal point** to the answer so that it's in the same place as the decimals in the sum, then add together any whole numbers.

	O	_			I n			O	_			ın
	0	•	4	7	3			0	•	4	7	3
+	1		2	4	0	$\overline{}$	+	1	•	2	4	0
		•	7	1	3			1	•	7	1	3

5

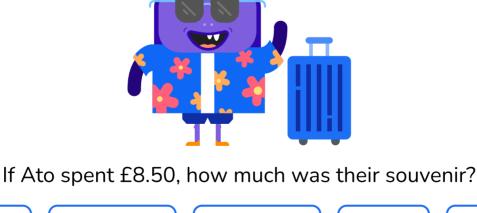
0.473 + 1.24 = 1.713

Example Question

We also use the column method to subtract decimal numbers.

Ato wants to buy some things for their flight. They buy a bottle of

water for £1.25, a magazine for £3, a snack for £2.50 and a souvenir.



£1.25 £1.75 £1.50

£2.25

Start by adding together the cost of the water, magazine and snack.

Remember!

Line up the **decimal points** in each number and add '0' into any empty spaces!

water £1.25 + £3 + £2.50 = £6.755 snack 0

Subtract this subtotal from the total amount of money that Ato spent.

	8	•	5.	0	total	£8.50 - £6.75 = £
_	6	•	7	5	subtotal	18.50 - 10.75 - 1

The correct answer is \mathbf{C} . The souvenir cost £1.75.

7

5

1

5

14

7

1