



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
<div>11</div>	.	<div>0.10.10.10</div>	<div>0.01</div>	<div>0.0010.0010.0010.0010.001</div>
2	.	3	1	5



The Column Method

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

1 Line up the numbers by **place value**.

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

O	.	T	H	Th
0	.	4	7	3
+	1	.	2	4

2 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.

O	.	T	H	Th
0	.	4	7	3
+	1	.	2	4
				0

→

O	.	T	H	Th
0	.	4	7	3
+	1	.	2	4
				0
				3

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.

O	.	T	H	Th
0	.	4 ¹	7	3
+	1	.	2	4
			4	0
			1	3

→

O	.	T	H	Th
0	.	4 ¹	7	3
+	1	.	2	4
		7	1	3

4 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	.	T	H	Th
0	.	4 ¹	7	3
+	1	.	2	4
			4	0
			1	3

→

O	.	T	H	Th
0	.	4 ¹	7	3
+	1	.	2	4
			4	0
			1	3

5 $0.473 + 1.24 = 1.713$

We also use the column method to **subtract** decimal numbers.



Example Question

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.



If Ato spent £8.50, how much was their souvenir?

A £1.25

B £1.50

C £1.75

D £2

E £2.25

1 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!

	1	.	2	5	water
	3	.	0	0	magazine
+	2	.	5	0	snack
	6	.	7	5	

$£1.25 + £3 + £2.50 = £6.75$

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

7		14	1		
8	.	5	0	total	
-	6	.	7	5	subtotal
<hr/>					
1	.	7	5		
<hr/>					

$£8.50 - £6.75 = £1.75$

The correct answer is **C**. The souvenir cost £1.75.