# Adding decimals with the same number of decimal places

Complete the additions.

Use the place value charts to help you.

**a)** 4.45 + 3.21 =

	Ones	Tenths	Hundredths					
		0.1 0.1 0.1	0.01 0.01 0.01		4	• 4	5	
		0.1	0.01 0.01	+	3	• 2	1	
		0.1 0.1	0.01			•		
Т		•						

**b)** 4.45 + 3.61 =



	Ones	Tenths	Hundredths					
					4	4	5	
				+	3	6	1	
Г	•	•						

**c)** 4.45 + 3.78 =

	Ones	Tenths	Hundredths					
					4 •	4	5	
				+	3 •	7	8	
						•		
Т								

Which calculation was easier? Talk about it with a partner.

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Use the column method to work out the additions.



b)					
		6	0	3	
	+	3 (	9	1	
			•		

c)						
			2	3	2	
	+	1	0 •	1	7	



e)						
		3	• 1	0	2	
	+	5	8	7	6	
			•			

)							
		1	2	0	3	4	
	+		9	2	2	7	
				•			

g)

	5	7	5	
	5	3	2	
+	5	0	1	
		•		

**h)** 

	1	4 •	9	9	
+	1	2 •	3	7	

Work out the calculations.

Write <, > or = to make the statements correct.

a) 
$$0.64 + 4.79$$
 5.01 + 0.23  
b) 7.427 + 3.238 5.427 + 5.832  
c)  $3.08 + 4.63$  4.84 + 2.87



3

Teddy is working out the total cost of these items.



Here are his workings.

$$5 \cdot 7 \quad 5 \\ + 1 \quad 1 \cdot 2 \quad 0 \\ \hline 6 \quad 8 \cdot 7 \quad 0 \\ \hline \end{array}$$

£11.20

Talk to a partner about Teddy's mistake. Work out the correct answer.







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# Subtracting decimals with the same number of decimal places



3

4

Annie is calculating 2.42 – 1.17 using the column method.

She uses a place value chart to help her.



How does the place value chart support the column method? Talk about it with a partner.



b)					
		5 (	6	4	
	_	3 (	1	5	
			•		

Use a place value chart and counters to help you complete the subtractions.

Tens	Ones	Tenths	Hundredths
		0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	0.01 0.01 0.01
<b>a)</b> 14.83 – 12	2.12 =	<b>c)</b> 14.83 – 12.92	=
<b>b)</b> 14.83 – 12	2.14 =	<b>d)</b> 14.83 – 12.94	ł =

- e) Which calculation was easier? Talk about it with a partner.
- f) What happens when you don't have enough counters in a column to take away?

2	Complete the sentences.	
	1 ten can be exchanged for	ones.
	1 one can be exchanged for	tenths.

1 tenth can be exchanged for 10 \_\_\_\_\_

dredths					
01 0.01 0.01		2 ·	<sup>3</sup> 4	<sup>1</sup> 2	
01 0.01 0.01	-	1 •	• 1	7	
01 0.01 0.01		1 ·	2	5	



d)						
		1	2 •	0	2	
	-	1	1 •	3	8	
				•		





Whitney has £8.52

She buys this comic.

How much money does she have left?



f

f

Here are some items for sale in a shop.



a) How much more does a scarf cost than a bag of marbles?

b) Esther has £15.31

She buys a pair of headphones and a bag of marbles.

How much money does she have left?

**c)** Tom has £7.01

He buys one item and has £5.92 left.

What did he buy?

- Ron and Dora are doing a sponsored walk. Ron walks 3.12 miles. Dora walks 5.49 miles. How much further does Dora walk than Ron? Dora walks miles further than Ron.

Tommy has three pieces of string.

- The first piece is 0.78 m long.

• The second piece is 0.24 m shorter than the first piece. • The third piece is 0.07 m shorter than the second piece. What is the total length of all three pieces of string? Give your answer in metres and centimetres.

A, B and C are points on a number line. Α 118.76 100

How much greater is the difference between A and C than the difference between B and C?

Compare methods with a partner.

Tom bought \_

m and cm















# Adding decimals with a different number of decimal places



Ron is adding 1.4 and 2.53

He makes each number with counters.



- a) What is the answer to Ron's calculation?
- **b)** Explain your method to a partner.
- c) Did you have to make an exchange? \_



a) 0 2 3 • 1 • 6 +



c)					
		2 (	8		
	+	3 •	4	5	
-1)					

)						
			6	• 1	5	
	+	1	3 (	9		
				•		



3

4

- Filip is adding two numbers together.
- He writes it as a column addition.

a) What mistake has Filip made?

### **b)** Use the column method to work out the correct answer.



Use the column method to work out the additions. a) 2.36 + 1.9 **b)** 14.82 + 3.7





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Use the column method to work out the additions.

### a) 0.59 + 11.9





**b)** 77.34 + 1.82





d) 3.2 + 1.84 + 0.931

6

Mr Hall drives from point A to point B, then on to point C.





How many answers can you find?













Subtracting decimals with a different number of decimal places

1

2



Complete the subtractions.

3



Use the place value chart to help you work out the subtractions.

			One	S	•		Tenths			Hun	dred	ths	
					•								
a)							c)						
			5	• 3	6					5	• 3	6	
		-	1	2					-	3	8		
				•							•		
b)							d)						
			5	• 3	6					5	3	6	
		-	3	5					-	4	7		
				•							•		
Ale	ex i	s using	j cou	inter	s to l	help	her wo	rk ou	t 4.7	7 – 1.	35		
(				hav	I cai ve ar	n't de 1y hi	o this undred	as I ths c	don' oun	t ters.	)		

Do you agree with Alex? \_\_\_\_

Talk about it with a partner.



### **c)** 5.6 – 1.39

### **d)** 18.2 – 3.64

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