

# Subtracting decimals with the same number of decimal places

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

Tens	Ones	Tenths	Hundredths
10	1 1 1 1 1 1	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	0.01 0.01 0.01

a)  $14.83 - 12.12 = 2.71$       c)  $14.83 - 12.92 = 1.91$

b)  $14.83 - 12.14 = 2.69$       d)  $14.83 - 12.94 = 1.89$

- 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?

You need to make an exchange.

2 Complete the sentences.

1 ten can be exchanged for 10 ones.

1 one can be exchanged for 10 tenths.

1 tenth can be exchanged for 10 hundredths.

3 Annie is calculating  $2.42 - 1.17$  using the column method. She uses a place value chart to help her.

Ones	Tenths	Hundredths
1 1	0.1 0.1 0.1 0.1	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01

	2	<del>4</del>	2	
-	1	1	7	
	1	2	5	

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

4 Complete the column subtractions.

a)

	5	6	4	
-	3	1	2	
	2	5	2	

c)

	<del>8</del>	0	9	
-	3	8	1	
	4	2	8	

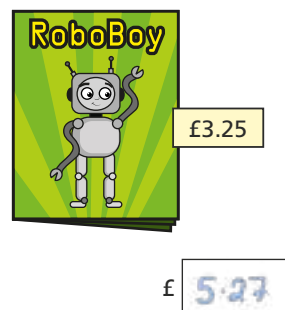
b)

	5	<del>6</del>	4	
-	3	1	5	
	2	4	9	

d)

	1	<del>2</del>	0	2
-	1	1	3	8
	0	0	6	4

- 5 Whitney has £8.52  
She buys this comic.  
How much money does she have left?



- 6 Here are some items for sale in a shop.



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

£ 2.64

- b) Esther has £15.31  
She buys a pair of headphones and a bag of marbles.  
How much money does she have left?

£ 3.94

- c) Tom has £7.01  
He buys one item and has £5.92 left.  
What did he buy?

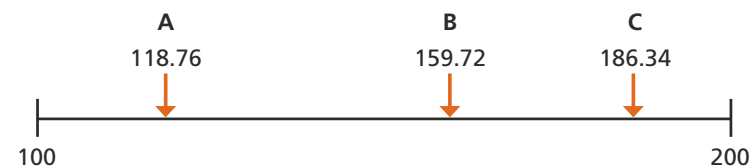
Tom bought a bagging.

- 7 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 2.37 miles further than Ron.

- 8 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.

1 m and 79 cm

- 9 A, B and C are points on a number line.



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

40.96

Compare methods with a partner.