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

b) 14.83 – 12.14 = 2.69

c) 14.83 – 12.92 = 1.91

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 0.01 0.01 0.01 0.01

	2 •	~~3~~4	12	
–	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	

b)

		5 •	~~6~~ 5	14	
	–	3 •	1	5	
		2 •	4	9	

c)

		~~8~~ 7 •	10	9	
	–	3 •	8	1	
		4 •	2	8	

d)

		1	~~2~~ 1 •	~~0~~ 9	12	
	–	1	1 •	3	8	
		0	0 •	6	4	

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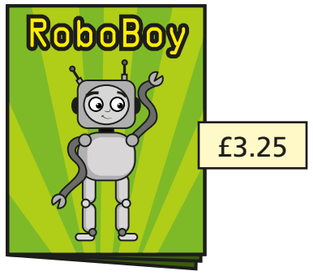
5 Whitney has £8.52

She buys this comic.

How much money does she have left?



£ 5.27

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 keyring.

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.

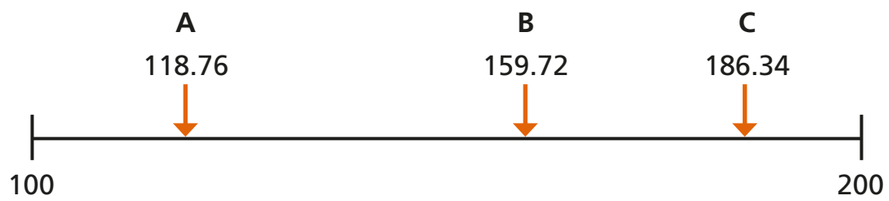
- The first piece is 0.78 m long.
- The second piece is 0.24 m shorter than the first piece.
- The third piece is 0.07 m shorter than the second piece.

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.

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