Subtracting decimals with the same number of decimal places

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

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
<th>Tenth</th>
<th>Hundredths</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0.1</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.01</td>
</tr>
</tbody>
</table>

a) $14.83 - 12.12 = \underline{}$

b) $14.83 - 12.14 = \underline{}$

c) $14.83 - 12.92 = \underline{}$

d) $14.83 - 12.94 = \underline{}$

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 \underline{} ones.

1 one can be exchanged for \underline{} tenths.

1 tenth can be exchanged for 10 0.01.

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

<table>
<thead>
<tr>
<th>Ones</th>
<th>Tenths</th>
<th>Hundredths</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>5</td>
</tr>
</tbody>
</table>

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

4. Complete the column subtractions.

a) $5 - 3 = \underline{}$

b) $5 - 3 = \underline{}$

c) $8 - 3 = \underline{}$

d) $1 - 1 = \underline{}$
5 Whitney has £8.52
She buys this comic.
How much money does she have left?

£3.25

6 Here are some items for sale in a shop.

£2.27
£9.10
£4.91
£1.09

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?

Tom bought ________________.

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 _____ 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.

m and cm

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

A
118.76

B
159.72

C
186.34

100
150
200

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

Compare methods with a partner.