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>Tenths</th>
<th>Hundredths</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1.2</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
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<td>2.3</td>
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<tr>
<td>1</td>
<td>3</td>
<td>0</td>
<td>3.0</td>
</tr>
<tr>
<td>1</td>
<td>4</td>
<td>2</td>
<td>4.2</td>
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<tr>
<td>1</td>
<td>5</td>
<td>3</td>
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<td>1</td>
<td>6</td>
<td>4</td>
<td>6.4</td>
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<td>1</td>
<td>7</td>
<td>5</td>
<td>7.5</td>
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<tr>
<td>1</td>
<td>8</td>
<td>6</td>
<td>8.6</td>
</tr>
<tr>
<td>1</td>
<td>9</td>
<td>7</td>
<td>9.7</td>
</tr>
</tbody>
</table>

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.

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<tr>
<td>1</td>
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<tr>
<td>1</td>
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</table>

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

4. Complete the column subtractions.

a) 5.64 – 3.12 = 2.52  c) 35.09 – 38.1 = 4.92
b) 5.64 – 3.15 = 2.49  d) 1.2 – 0.64 = 0.56

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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.

- Bag of marbles: £2.27
- Headphones: £9.10
- Scarf: £4.91
- Toy: £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 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 \( \text{2.37} \) 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.

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

A: 118.76
B: 159.72
C: 186.34

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

Compare methods with a partner.