Week 10, Day 3
Use counting up to find change and differences between prices
Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by carefully reading through the Learning Reminders.

2. Tackle the questions on the Practice Sheet. There might be a choice of either Mild (easier) or Hot (harder)! Check the answers.

3. Finding it tricky? That’s OK... have a go with a grown-up at A Bit Stuck?

4. Have I mastered the topic? A few questions to Check your understanding. Fold the page to hide the answers!

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Use counting up to find change and differences between prices.

Let’s pretend that you have a £100 budget for a bedroom makeover.

Let’s choose two items, the bean bag and duvet cover. We want to find how much change is left from our £100 budget.

We can use a bar model to show what we have spent and what we need to find.

<table>
<thead>
<tr>
<th>Bean bag</th>
<th>Duvet</th>
<th>Change?</th>
</tr>
</thead>
<tbody>
<tr>
<td>£14.79</td>
<td>£24.45</td>
<td></td>
</tr>
</tbody>
</table>

- bean bag £14.79
- duvet cover £24.45
- lava lamp £18.49
- rug £35.25
- bookshelves £45.78
- computer chair £32.45
- computer desk £58.38
- hanging chair £45.79
Learning Reminders

Use counting up to find change and differences between prices

This is a 2-step problem.

First use column addition to find the total cost of the bean bag and duvet.

Then, count up using a number line jotting to find the change from £100.

£14.79
+ £24.45

£39.24

Choose two more items from the list. Find the total cost, then calculate the change from £100.

£60.76 left!
Practice Sheet Mild
Finding change

Find the amount left over from £100 for each item.

- £23.75
- £65.45
- £37.89
- £21.35
- £58.49
- £75.59

4 rolls for the price of 3
£23.67

Choose two of your answers to check with addition.

Challenge
Choose two items with a total cost of less than £100. How much would be left over from £100?
## Practice Sheet Hot
### Price differences

Find the difference in online and in-store price for each item:

<table>
<thead>
<tr>
<th>Item</th>
<th>Online Price</th>
<th>In store Price</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beanbag</td>
<td>£23.75</td>
<td>£19.89</td>
<td></td>
</tr>
<tr>
<td>Lava lamp</td>
<td>£37.89</td>
<td>£36.56</td>
<td></td>
</tr>
<tr>
<td>Curtains</td>
<td>£75.59</td>
<td>£79.50</td>
<td></td>
</tr>
<tr>
<td>Wallpaper</td>
<td>£23.67</td>
<td>£29.96</td>
<td></td>
</tr>
<tr>
<td>Rug</td>
<td>£35.64</td>
<td>£32.78</td>
<td></td>
</tr>
<tr>
<td>Paint</td>
<td>£21.35</td>
<td>£23.15</td>
<td></td>
</tr>
<tr>
<td>Bookcase</td>
<td>£65.45</td>
<td>£59.69</td>
<td></td>
</tr>
<tr>
<td>Cupboard</td>
<td>£58.49</td>
<td>£62.20</td>
<td></td>
</tr>
</tbody>
</table>

**Challenge**

Choose two items with a total cost of less than £100. How much would be left over from £100? Repeat for another pair.
Practice Sheets Answers

Finding change (mild)

Beanbag £100 - £23.75 = £76.25
Lava lamp £100 - £37.89 = £62.11
Bookcase £100 - £65.45 = £34.55
Curtains £100 - £75.59 = £24.41
Wallpaper £100 - £23.67 = £76.33
Storage cabinet £100 - £58.49 = £41.51
Paint £100 - £21.35 = £78.65
Rug £100 - £35.64 = £64.36

Challenge

Choose two items with a total cost of less than £100. How much would be left over from £100?
E.g. Orange paint £21.35 + lava lamp £37.89 = £59.24
£100 - £59.24 = £40.76
E.g. Space rug £35.64 + storage box £58.49 = £94.13
£100 - £94.13 = £5.87

Price differences (hot)

<table>
<thead>
<tr>
<th>Item</th>
<th>Online</th>
<th>In store</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beanbag</td>
<td>£23.75</td>
<td>£19.89</td>
<td>£3.86</td>
</tr>
<tr>
<td>Lava lamp</td>
<td>£37.89</td>
<td>£36.56</td>
<td>£1.33</td>
</tr>
<tr>
<td>Curtains</td>
<td>£75.59</td>
<td>£79.50</td>
<td>£3.91</td>
</tr>
<tr>
<td>Wallpaper</td>
<td>£23.67</td>
<td>£29.96</td>
<td>£6.29</td>
</tr>
<tr>
<td>Rug</td>
<td>£35.64</td>
<td>£32.78</td>
<td>£2.86</td>
</tr>
<tr>
<td>Paint</td>
<td>£21.35</td>
<td>£23.15</td>
<td>£1.80</td>
</tr>
<tr>
<td>Bookcase</td>
<td>£65.45</td>
<td>£59.69</td>
<td>£5.76</td>
</tr>
<tr>
<td>Cupboard</td>
<td>£58.49</td>
<td>£62.20</td>
<td>£3.71</td>
</tr>
</tbody>
</table>

Challenge

Choose two items with a total cost of less than £100. How much would be left over from £100?
E.g. Orange paint £21.35 + lava lamp £37.89 = £59.24
£100 - £59.24 = £40.76
E.g. Space rug £35.64 + storage box £58.49 = £94.13
£100 - £94.13 = £5.87
Work in pairs

Things you will need:
• A pencil

What to do:
• Take it in turns to choose a hat or a beanie from the web page.
• Use Frog to find the change from £5.
• How many hats can you buy before you run out of time?

£5 - £4.49 =

S-t-r-e-t-c-h:
Choose two hats and find the change from £10.

Learning outcomes:
• I can use Frog to find the change from £5 (answers less than £1).
• I am beginning to use Frog to find the change from £10.

Explore more Hamilton Trust Learning Materials at https://wrht.org.uk/hamilton
Winter hats

Wrap up and keep warm this winter with our latest range of winter hats.

- Red pom-pom beanie £4.49
- Orange plain knit beanie £4.85
- Khkai Aran knit beanie £4.63
- Purple zig-zag striped beanie £4.75
- Techno pattern double pom-pom beanie £4.25
- Grey pom-pom beanie £4.37
- Aztec knit beanie £4.59
- Pale blue fluffy pom-pom beanie £4.46
Check your understanding

Questions

Choose two numbers, then find the difference between them.

![16.12](image)

![13.57](image)

![8.87](image)

![14.45](image)

Repeat this twice.

Calculate the missing numbers:

(a) $23.4 - \square = 18.67$

(b) $15.5 = \square + 8.78$

(c) $32.4 - 18.55 = \square$

Calculate the change from £100 when buying:

- chair £56.89
- table £75.37
- rug £20.08
Choose two numbers and find the difference between them.

Any 2 from:
16.12 - 14.45 = 1.67  
16.12 - 8.87 = 7.25  
14.45 - 8.87 = 5.58  

16.12 - 13.57 = 2.55  
14.45 - 13.57 = 0.88  
13.57 - 8.87 = 4.7

Write the missing numbers.

(a) 23.4 - [4.73] = 18.67
(b) 15.5 = [6.72] + 8.78
(c) 32.4 - 18.55 = [13.85]

Find change from £100 when buying:

- chair £56.89  £43.11
- table £75.37  £24.63
- rug £20.08  £79.92

These are probably best answered by counting up to find the difference.