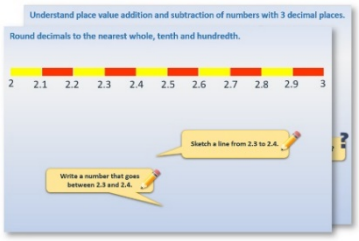
Week 12, Day 3

Using counting up (Frog) to find change

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the **Learning Reminders**.
   They come from our *PowerPoint* slides.



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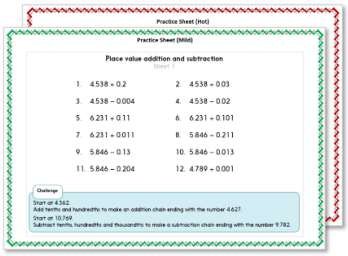
2. Tackle the questions on the **Practice Sheet**.
   There might be a choice of either Mild (easier) or Hot (harder)!
   Check the answers.



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

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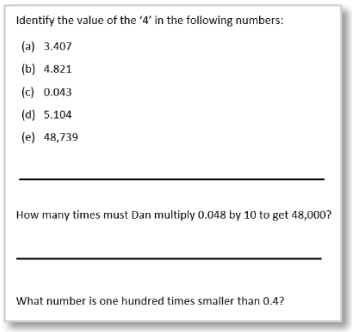
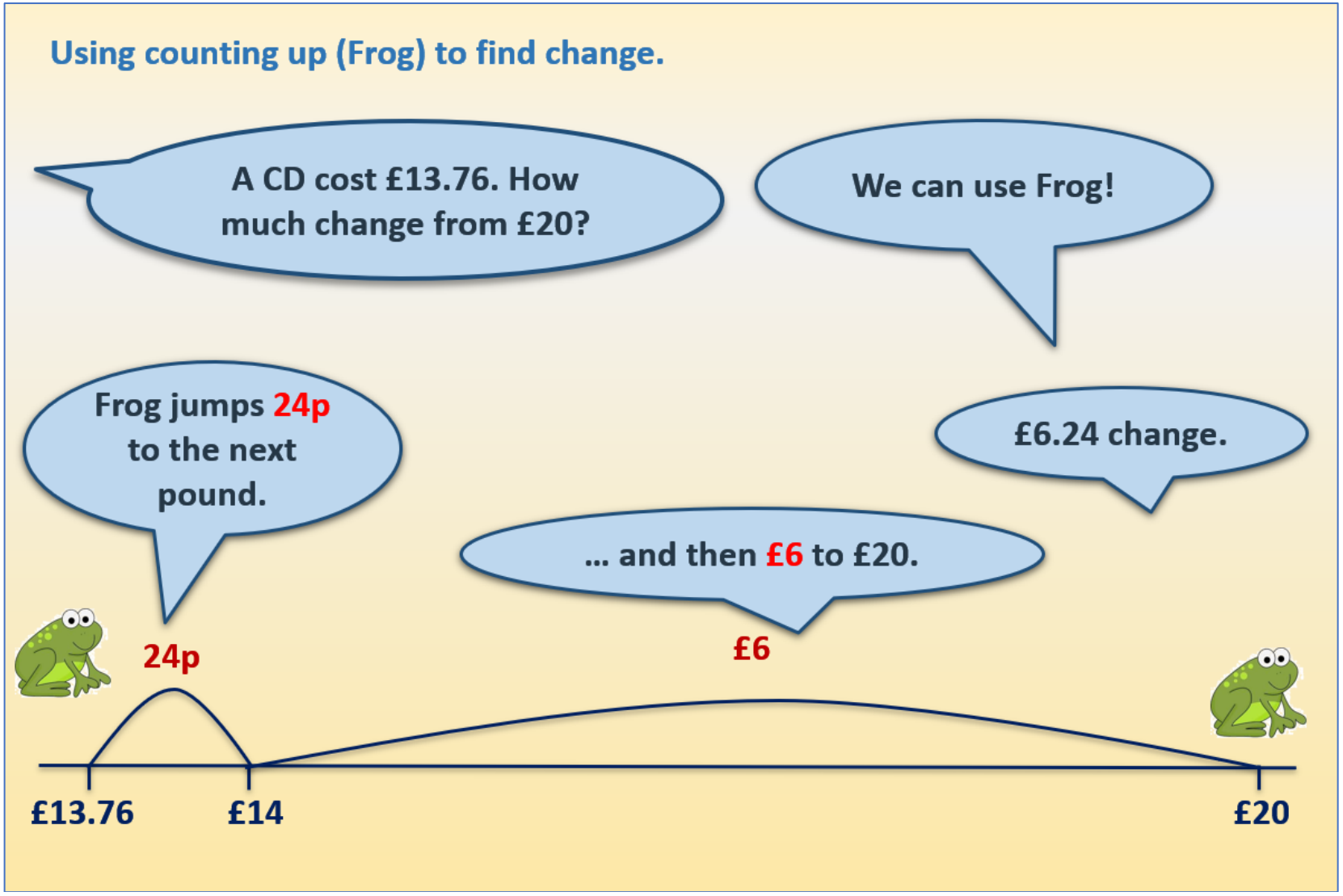
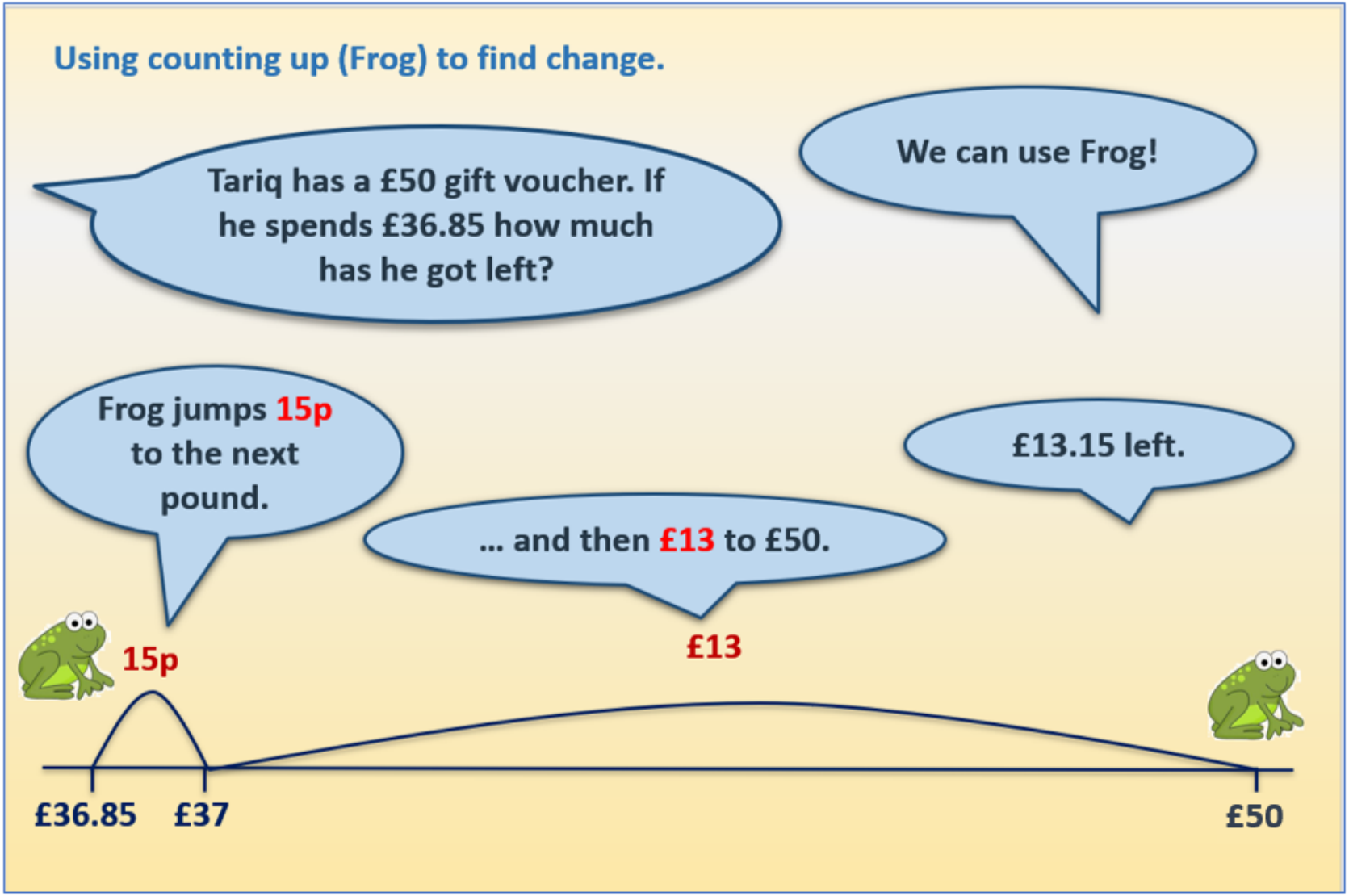
4. Have I mastered the topic? A few questions to **Check your understanding**.
   Fold the page to hide the answers!



Learning Reminders



Learning Reminders



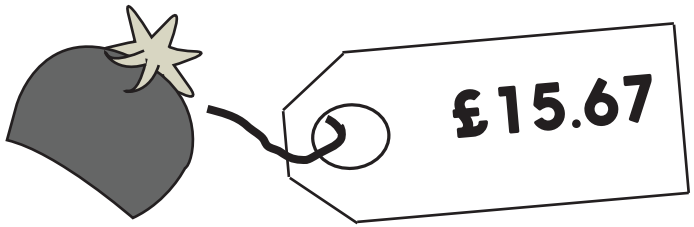
Practice Sheet Mild

Finding change

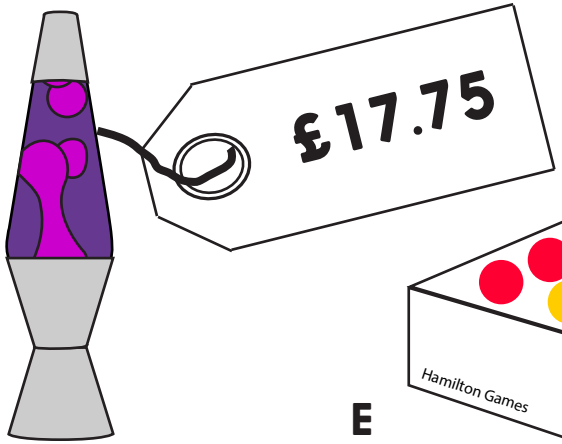
Find the change from £20 for each of these five prices:

A

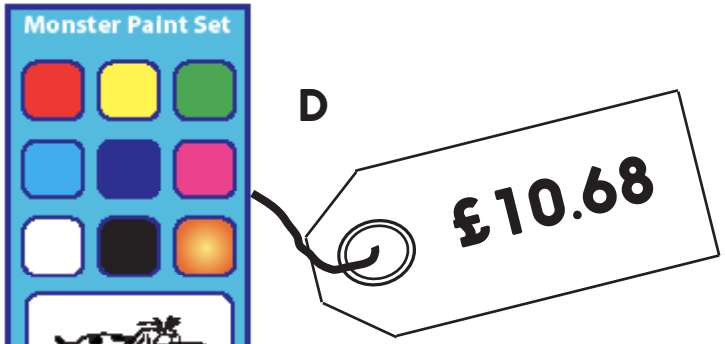
B



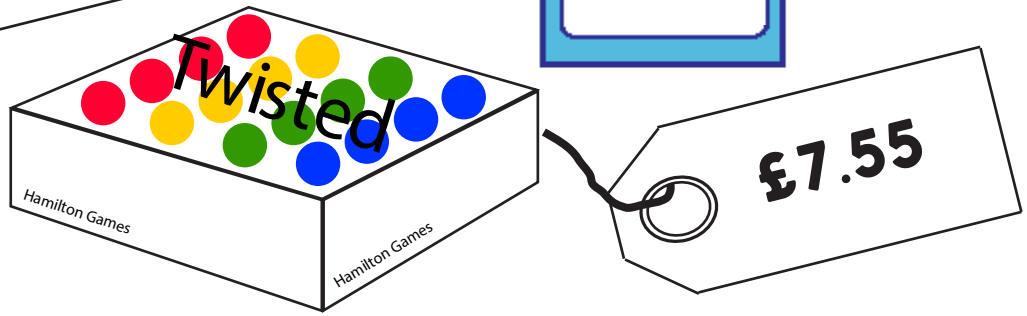
C



D



E



Challenge

You have £20. Which two items could you afford? Find their total cost and the change from £20.

Practice Sheet Hot

Finding change

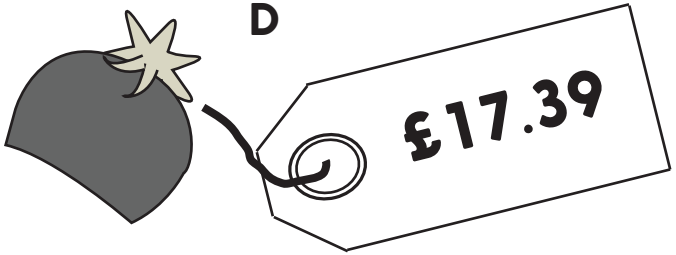
Find the change from £50 for each of these five prices:

A

B

C

D



E

Challenge

You have £50. Which two items could you afford? Find their total cost and the change from £50.

Practice Sheets Answers

Finding change (mild)

A £6.12
B £4.33
C £2.25
D £9.32
E £12.45

Challenge

You can afford items D and E, with a total of £18.23. Change = £1.77

Finding change (hot)

A £6.52
B £14.23
C £21.18
D £32.61
E £11.55

Challenge

You can afford items C and D, with a total of £46.21. Change = £3.79

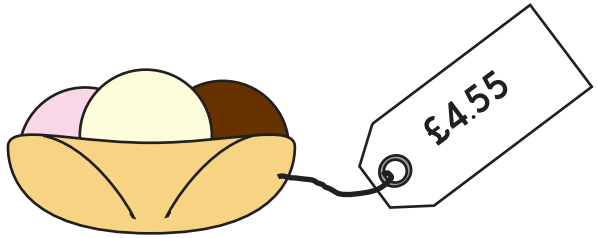
A Bit Stuck?

Finding change from £10 and £20

Use Frog to solve these change problems.

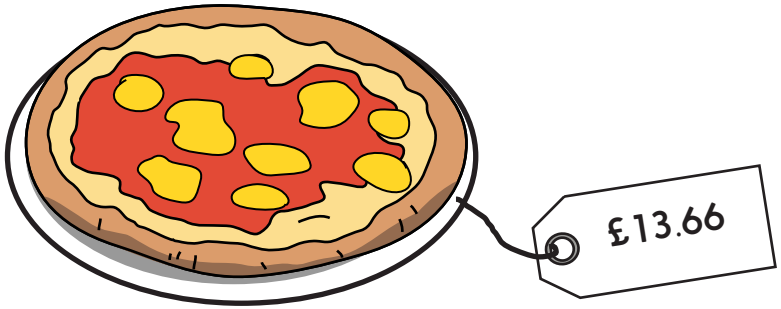
You have **£10**. How much change will you get if you buy the following:

1. Cheese on toast with salad £5.61
2. Ice cream sundae £4.55
3. Ploughman's lunch £7.99
4. Afternoon tea £8.88
5. Pancake stack £4.22



You have **£20**. How much change will you get if you buy the following:

6. Pizza £13.66
7. Spaghetti bolognaise £14.51
8. Burger and chips £11.79



Challenge

Choose any two items from the menus. How much change will you get from £20? Be careful not to spend more than £20.

A Bit Stuck? Answers

Finding change from £10 and £20

1. £10 - £5.61 = £4.39
2. £10 - £4.55 = £5.45
3. £10 - £7.99 = £2.01
4. £10 - £8.88 = £1.12
5. £10 - £4.22 = £5.78

6. £20 - £13.66 = £6.34
7. £20 - £14.51 = £5.49
8. £20 - £11.79 = £8.21
9. £20 - £12.87 = £7.13
10. £20 - £9.28 = £10.72

Check your understanding

Questions

Use Frog to find the difference between the cost of two plants, one costing £15.23 and one costing £13.78.

Jess had £30 and bought a computer game for £23.87.

Del had £20 and bought a book for £12.65.

Use Frog to check who had the most money left…

True or false? Explain your ideas…

- Subtracting from a multiple of 1000, it is best to use Frog.
- Subtracting a 3-digit number from a 4-digit number always gives an answer greater than 1000.
- Subtracting 4827 from 7284 will only involve moving amounts from one column.
- Subtracting 895 from 2222, column subtraction is not the best method.

Check your understanding

Answers

Use Frog to find the difference between the cost of two plants, one costing £15.23 and one costing £13.78. £1.45.

Jess had £30 and bought a computer game for £23.87.

Del had £20 and bought a book for £12.65.

Use Frog to check who had the most money left….

Jess had £6.13 left, Del £7.35.

True or false? Explain your ideas…

- Subtracting from a multiple of 1000, it is best to use Frog. True - since there are no 100s, 10s or 1s, column subtraction could be error-prone.
- Subtracting a 3-digit number from a 4-digit number always gives an answer greater than 1000. False, e.g. 1342 – 781. Any example where the 4-digit number begins with 1 and the 100s, 10s, 1s part is smaller than the 3-digit number being subtracted gives an answer less than 1000.
- Subtracting 4827 from 7284 will only involve moving amounts from one column. False since both the 100s and the 1s in 4827 are smaller than in 7284.
- Subtracting 895 from 2222, column subtraction is not the best method. Probably best solved by counting up since 895 is a near multiple of 100 (a jump of 105 to 1000, then a jump of 1000 to 2000, then a jump of 222 to 2222). It would be a tricky column subtraction involving 3 exchanges.

These are example explanations – credit children for an explanation which is justified with examples.