### Week 10, Day 2

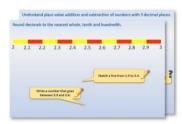
### Use counting up (Frog) to calculate change (1)

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

1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.



OR start by carefully reading through the **Learning Reminders**.



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

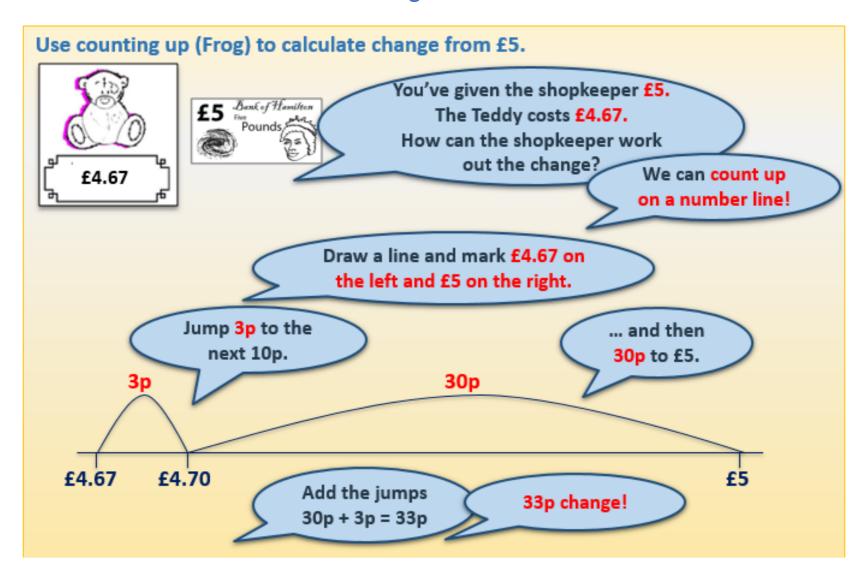


3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

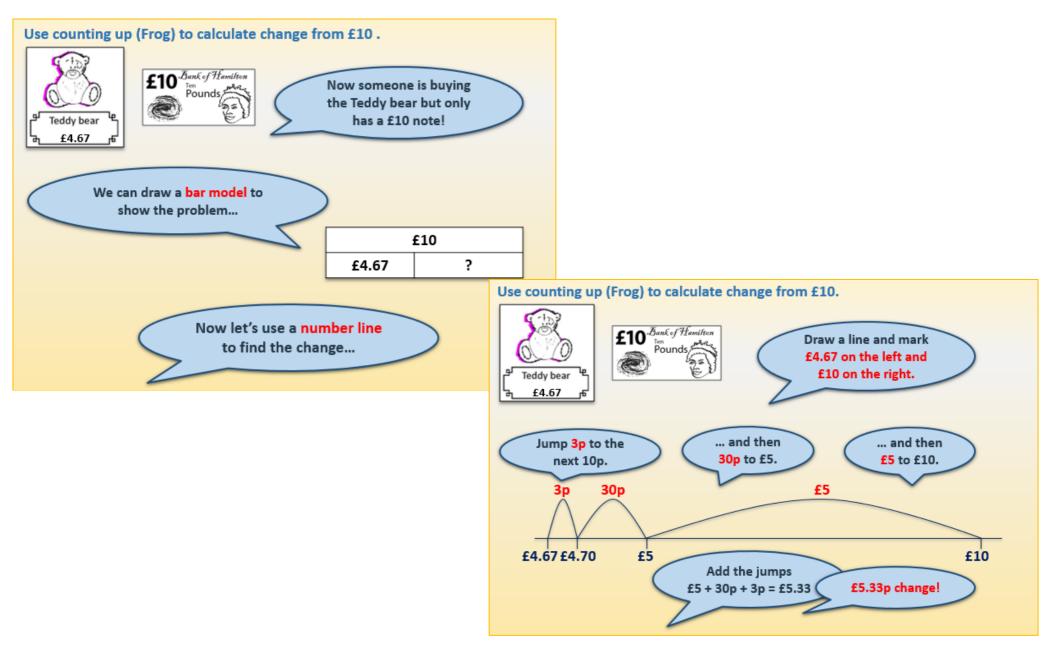


4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...

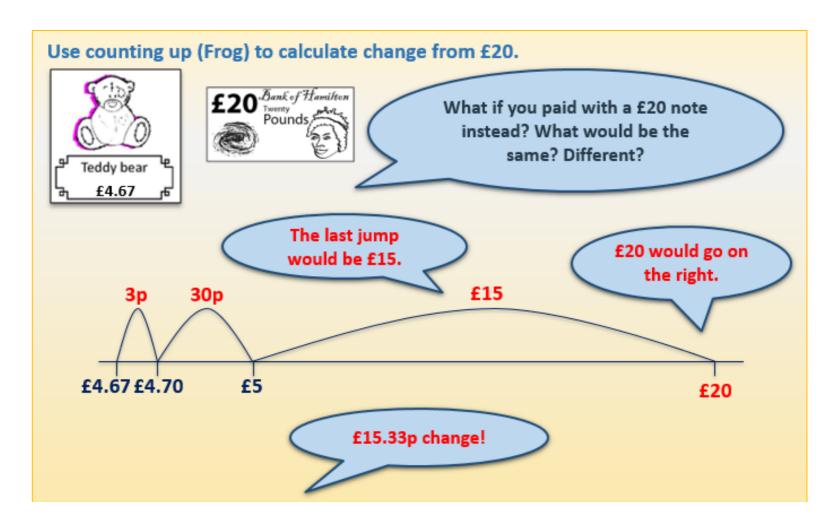
### **Learning Reminders**



### **Learning Reminders**



### **Learning Reminders**



# Practice Sheet Mild Finding change from £5 and £10

You have £5. How much change will you get if you buy the following:

- 1. Cupcake £1.25
- 2. Ham sandwich £3.68
- 3. Bowl of soup £2.59
- 4. Yoghurt £1.16
- 5. Milkshake £4.82
- 6. Jacket potato £4.07

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

- 7. Cheese on toast with salad £5.61
- 8. Ice cream sundae £4.55
- 9. Ploughman's lunch £7.99
- 10. Afternoon tea £8.88

### Practice Sheet Hot Finding change from £10 and £20

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

- 1. Cheese and ham panini £5.29
- 2. Banana sundae £3.75
- 3. Soup and sandwich £6.49
- 4. Cream tea £5.68
- 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
- 9. Fish and chips £12.87
- 10. Chicken salad £9.28

#### Challenge

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

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#### **Practice Sheet Answers**

#### Practice Sheet (Mild)

- 5. £5 £4.82 = £0.186. £5 - £4.07 = £0.93

#### Practice Sheet (Hot)

- 1. Cheese and ham panini £5.29 £4.71
- 2. Banana sundae £3.75 £6.25
- 3. Soup and sandwich £6.49 £3.51
- 4. Cream tea £5.68 £4.32
- 5. £20 £13.66 = £6.34
- 6. £20 £14.51 = £5.49
- 7. £20 £11.79 = £8.21
- 8. £20 £12.87 = £7.13
- 9. £20 £9.28 = £10.72

### A Bit Stuck? Read it

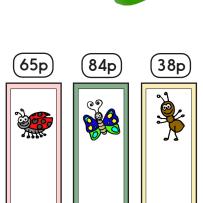
#### Work in pairs

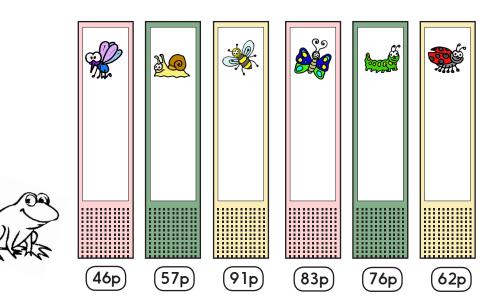
#### Things you will need:

- Money lines
- 1p and 2p coins

#### What to do:

- Here are Frog's bookmarks. Choose one.
  - Use Frog on a money line to help you to work out the change from  $\mathbb{E}\mathbb{1}$ .
  - Write a number sentence, e.g. £1 45p = 55p.
- If the change is an odd amount of money, collect a 1p coin. If the amount is even, collect a 2p coin.
- · Repeat with different bookmarks.
- Can you collect more than 10p?





#### S-t-r-e-t-c-h:

Draw how the change might be given each time.

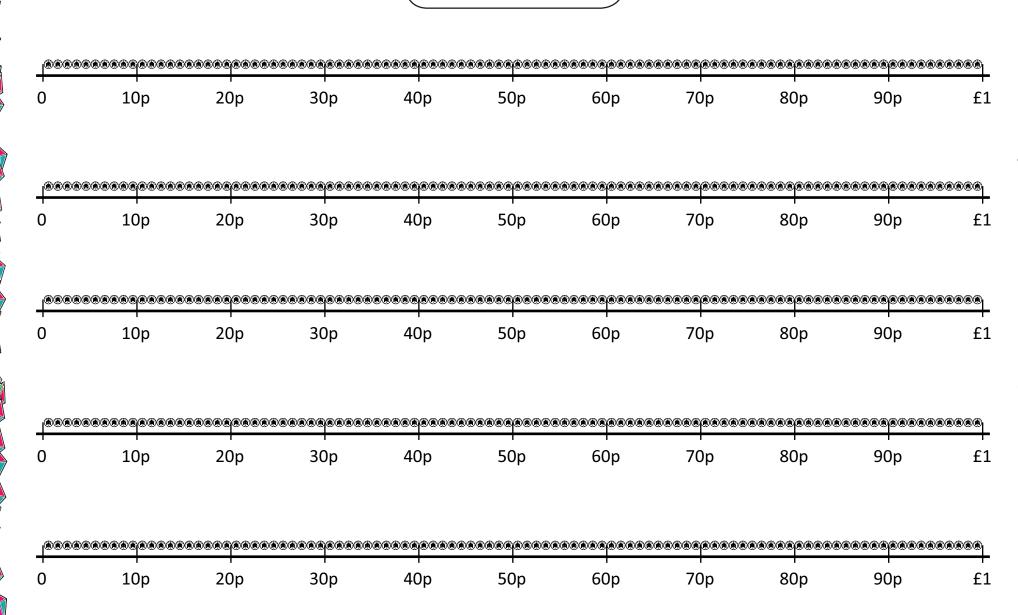
#### Learning outcomes:

- I can find the change from £1 using a money line.
- · I am beginning to show how change might be given.

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### **Investigation**

### Step change

1. Copy the diagram on the right.

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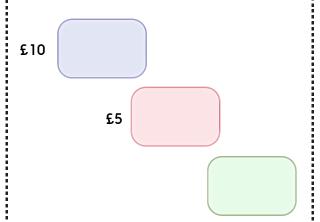
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- 2. Write an amount greater than £5 in the top step on the diagram.
- 3. Find the change from £10. Write the answer in the second step.
- 4. Find the change from £5. Write the answer in the third step.
- 5. Compare the pence in the numbers on the top and third step.
- 6. Repeat this five times with different starting amounts.



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Have you tried amounts with no 10ps?

How about amounts with no 1ps?

Why does this work?

Can you write an explanation?



## Challenge

Try this with four steps – Change from £20, then change from £10, then change from £5. What happens to the pence now? Try five steps, starting at change from £50!

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 $4 + ? = x cm^3 \frac{1}{2} \div \frac{1}{2} \times m^2 \times \% 4 \% - cm ? x \div \frac{1}{2}$