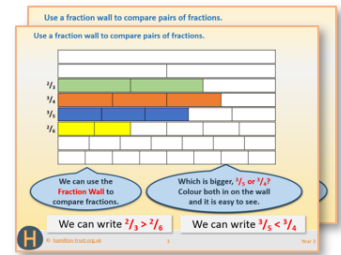


# Week 12, Day 1

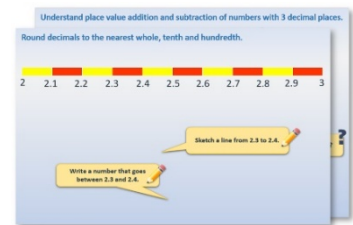
## Count up to find a price difference

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

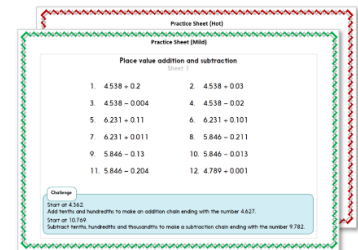
1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.



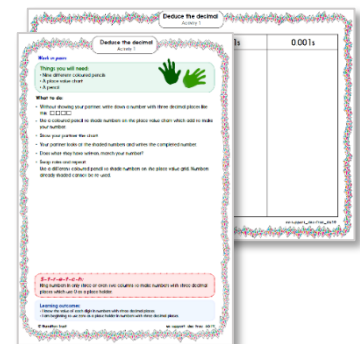
OR start by carefully reading through the **Learning Reminders**.



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

## Learning Reminders

Count up to find a price difference.

Item	Old price	Sale price	Reduction
DVD	£9.25	£8.69	
Book	£6.50	£5.89	
Drawing pad	£3.23	£2.45	
CD	£7.25	£6.99	
Pencils	£4.25	£3.49	

These items have been reduced in the sale. Which item do you think has been reduced by the most? And the least?

Don't do any calculating yet, just look at the numbers and **estimate**.

## Learning Reminders

Count up to find change from £5 and £10.

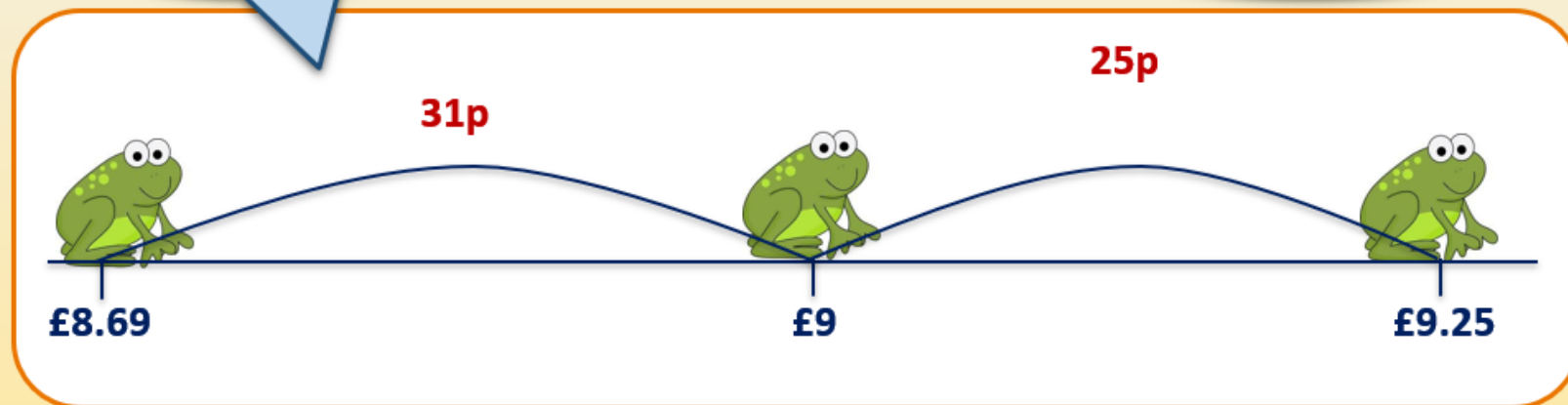
We can use Frog to find out how much the DVD has been reduced by.

Draw a line and mark **£8.69** (the sale price) on the left and **£9.25** (the old price) on the right...

Frog knows that  $69 + 31 = 100$  so he jumps **31p** to £9...

... and then **25p** to £9.25.

So the reduction is  $31p + 25p = 56p$ .



## Learning Reminders

Count up to find a price difference.

The book originally cost £6.50 and the sale price is £5.89.

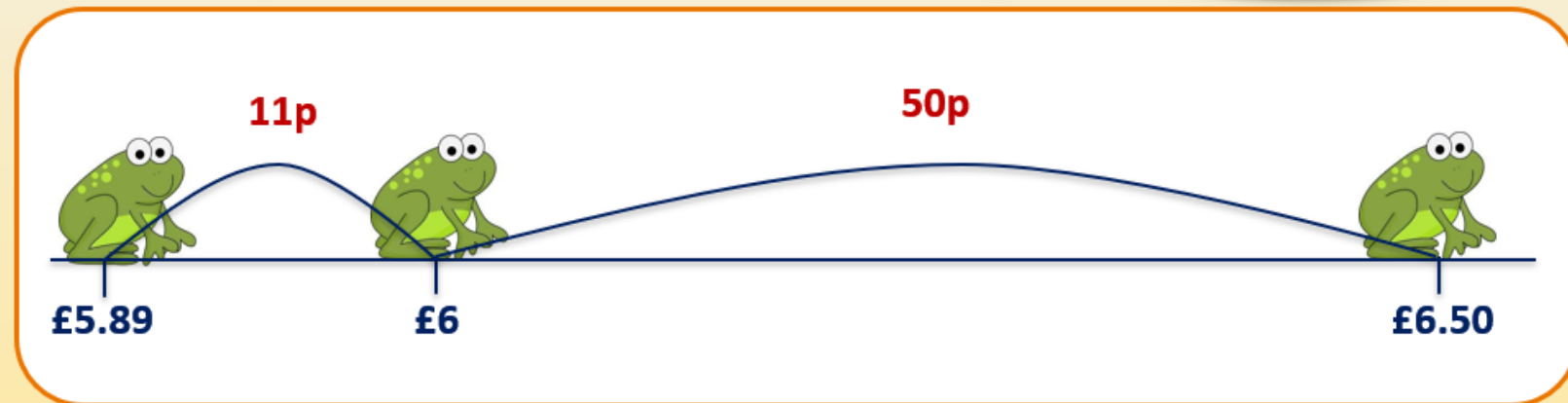
Draw a line and mark **£5.89 on the left** and **£6.50 on the right...**

Frog's ready to go!

How far to the **next pound?**

How much more to **£6.50?**

So the reduction is  **$50p + 11p = 61p$ .**



## Learning Reminders

Count up to find a price difference.

Item	Old price	Sale price	Reduction
DVD	£9.25	£8.69	56p
Book	£6.50	£5.89	61p
Drawing pad	£3.23	£2.45	
CD	£7.25	£6.99	
Pencils	£4.25	£3.49	

Now find the reduction in cost for the other items.

You can check your answers by adding the reduction to the sale price. Addition is the **inverse** of subtraction.

Which item had the greatest reduction? Which had the least?

Answers  
Drawing pad 78p  
CD 26p  
Pencils 76p

## Practice Sheet Mild

### Finding a difference

Find the difference in price between each pair of items:

Item	www.techy.co.uk	www.itgadgets.co.uk	Difference in price
2 GB memory stick	£9.49	£8.99	
Travel mouse	£12.99	£13.25	
100 blank CDs	£10.15	£9.79	
Phone sock	£6.10	£5.89	
Torch	£7.99	£8.49	
Mouse mat	£4.19	£3.90	

Which item has the greatest difference in price? And the least difference?

If you could only visit one shop, which would you choose? Why?

## Practice Sheet Hot

### Finding a difference

Find the difference in price between each pair of items:

Item	www.techy.co.uk	www.itgadgets.co.uk	Difference in price
2 GB memory stick	£9.49	£8.25	
Travel mouse	£12.99	£13.49	
100 blank CDs	£10.75	£9.65	
Phone sock	£6.79	£5.25	
Torch	£7.89	£8.49	
Mouse mat	£4.75	£3.89	

Which item has the greatest difference in price? And the least difference?

#### Challenge

How much cheaper is it to 'shop around' rather than order from just one of the online stores?

## Practice Sheets Answers

### Finding a difference (mild)

Item	www.techy.co.uk	www.it-gadgets.co.uk	Difference in price
2 GB memory stick	£9.49	£8.99	£0.50
Travel mouse	£12.99	£13.25	£0.26
100 blank CDs	£10.15	£9.79	£0.36
Phone sock	£6.10	£5.89	£0.21
Torch	£7.99	£8.49	£0.50
Mouse mat	£4.19	£3.90	£0.29

Greatest difference:  
**2GB memory stick and Torch**

Least difference:  
**Phone sock**

I would choose itgadgets. The total saving for techy is 76p, while the saving at itgadgets is £1.36.

### Finding a difference (hot)

Item	www.techy.co.uk	www.it-gadgets.co.uk	Difference in price
2 GB memory stick	£9.49	£8.25	£1.24
Travel mouse	£12.99	£13.49	£0.50
100 blank CDs	£10.75	£9.65	£1.10
Phone sock	£6.79	£5.25	£1.54
Torch	£7.89	£8.49	£0.60
Mouse mat	£4.75	£3.89	£0.86

Greatest difference:  
**Phone sock**

Least difference:  
**Travel mouse**

I would choose itgadgets as here I would save the most, £3.64 compared with techy.

### Challenge

'Shopping around' gives a total saving of £5.84, though it might be less trouble to shop for everything at 'itgadgets' as the total saving there is £4.74, with just another £1.10 to be saved on the other two items at 'techy'.

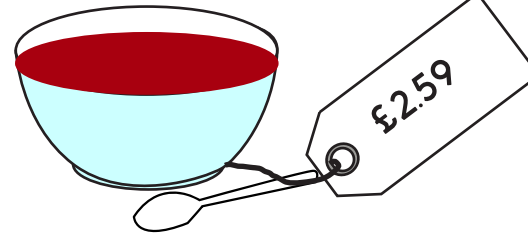
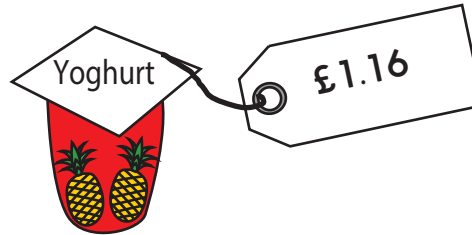


## A Bit Stuck?

### Finding change from £5 and £10

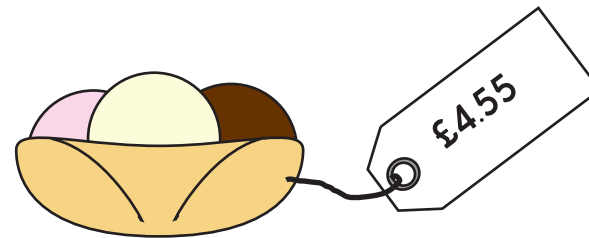
You have **£5**. How much change will you get if you buy the following:

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



## A Bit Stuck? Answers

### Finding change from £5 and £10

1. £5 - £1.25 = **£3.75**
2. £5 - £3.68 = **£1.32**
3. £5 - £2.59 = **£2.41**
4. £5 - £1.16 = **£3.84**
5. £5 - £4.82 = **£0.18**
6. £5 - £4.07 = **£0.93**
7. £10 - £5.61 = **£4.39**
8. £10 - £4.55 = **£5.45**
9. £10 - £7.99 = **£2.01**
10. £10 - £8.88 = **£1.12**

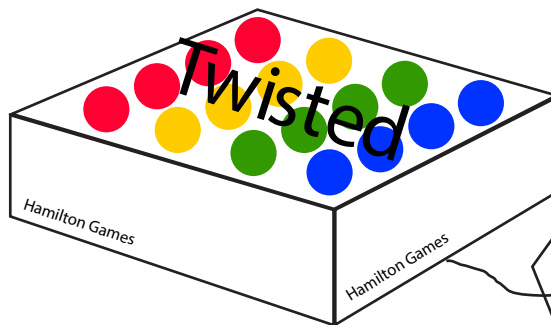
## Investigation In the sales



WAS: £4.36  
NOW: £3.25



WAS: £8.24  
NOW: £7.89



WAS: £7.39  
NOW: £6.67

- Which of these pairs of prices has the **greatest** difference?  
Why do you think that?
- Did you spot the pair of prices that had a difference greater than £1?  
How could you tell?
- Now find the exact difference between the pairs of prices using an empty number line (counting up, using Frog).

### Handy Hint!

Check your subtraction by adding your answer to the smaller price.

- Find six more pairs of prices (one amount in each pair is more than £6, the other less than £6):  
3 pairs should have a difference of between 40p and 60p.  
3 pairs should have a difference of between £1.20 and £1.40.

### Challenge

Find 3 pairs of prices, one more than £15 one less than £15, that have a difference of between £2.10 and £2.30.