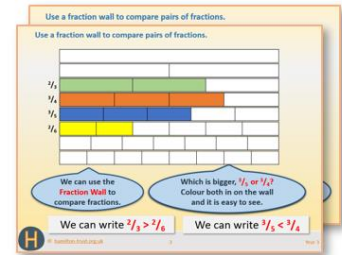


# Week 9, Day 1

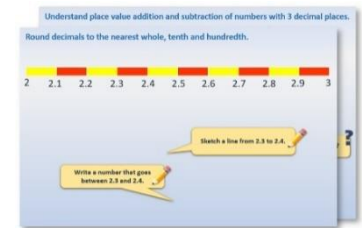
## Find a difference

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

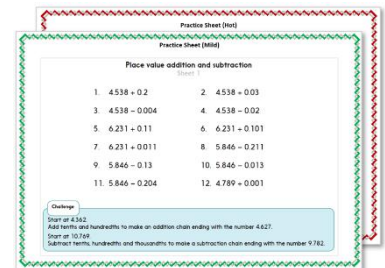
1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.



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



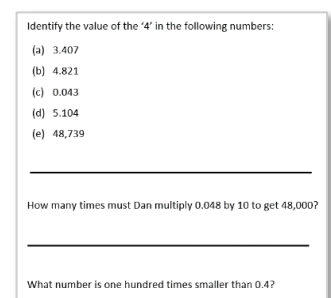
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



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



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



## Learning Reminders

Count up to find a difference between two amounts of money.



Matthew had £17 birthday money.  
He spent £15 on an art set.  
How could we work out how much money he has left?

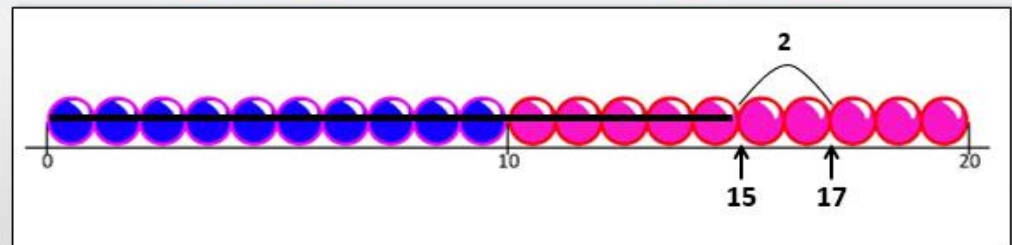
We could count back 15 to find how much he had left, but that would take a long time and we might make a mistake.

Instead we count up from 15 to 17 to find the difference between these amounts, it is quicker and easier.

Count up to find a difference between two amounts of money.

Let's mark 15 and 17 on a beaded line.

Next draw the jump from 15 to 17.



Matthew had £17 and spent £15, how much is left? What number sentence can we write?

$$£17 - £15 = £2$$

## Learning Reminders

Count up to find a difference between two amounts of money.

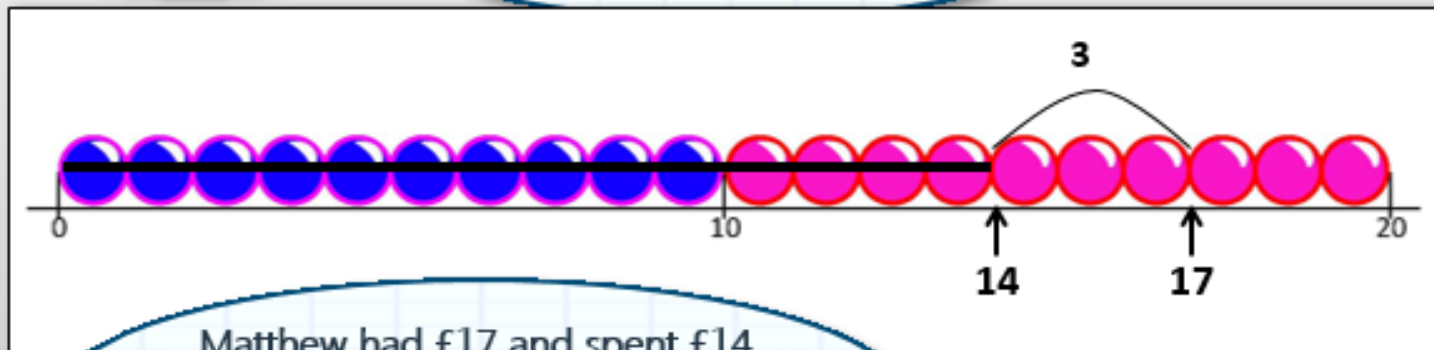


What if Matthew had spent £14?  
That would be a lot to count back.  
How could we work it out?

Counting back 14 would  
take too long. Let's use the  
beaded line to **count up**  
from 14 to 17.

Mark 14 and 17 on  
a beaded line.

Next draw the jump  
from 14 to 17.

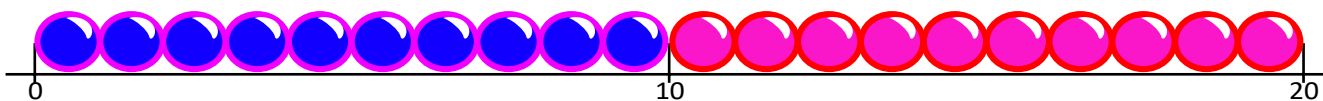


Matthew had £17 and spent £14,  
**how much is left?** What **number**  
**sentence** can we write?

$$£17 - £14 = £3$$

## Practice Sheet Mild

### Finding the difference



After a trip to the shops, what will you have left of your pocket money?

Decide if you will count back or count up to solve the following:

$$£18 - £12$$

$$£13 - £11$$

$$£16 - £5$$

$$£21 - £6$$

$$£15 - £12$$

$$£14 - £5$$

$$£16 - £14$$

$$£12 - £3$$

#### Challenge

Choose two of these calculations to write a word problem for.

## Practice Sheet Hot

### Finding the difference

After a trip to the shops, what will you have left of your pocket money?

Decide if you will count back or count up to solve the following:

$$£28 - £11$$

$$£29 - £24$$

$$£22 - £16$$

$$£18 - £7$$

$$£32 - £25$$

$$£26 - £4$$

$$£27 - £25$$

$$£24 - £18$$

#### Challenge

Choose two of these calculations to write a word problem for.

## Practice Sheets Answers

### Finding the difference (mild)

$£18 - £12 = £6$	Count up
$£13 - £11 = £2$	Count up
$£16 - £5 = £11$	Count back
$£21 - £6 = £15$	Count up
$£15 - £12 = £3$	Count back
$£14 - £5 = £9$	Count back
$£16 - £14 = £2$	Count up
$£12 - £3 = £9$	Count back

If children choose an alternative strategy they are not 'wrong'! Ask them to explain their thinking, trying to convince you that their method is more efficient for them.

### Finding the difference (hot)

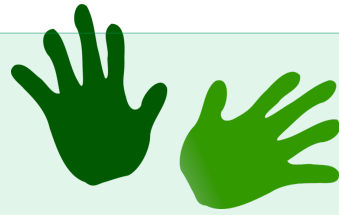
$£28 - £11 = £17$	Count back
$£29 - £24 = £5$	Count up
$£22 - £16 = £6$	Count up
$£18 - £7 = £11$	Count back
$£32 - £25 = £7$	Count up
$£26 - £4 = £22$	Count back
$£27 - £25 = £2$	Count up
$£24 - £18 = £6$	Count up

If children choose an alternative strategy they are not 'wrong'! Ask them to explain their thinking, trying to convince you that their method is more efficient for them.

## A Bit Stuck? Penny differences

### Things you will need:

- 40 pennies (or counters)
- 10 to 20 cards (see resource)



### What to do:

- Choose two cards.
- Make a line of pennies to match each card.

For example:

15

11



- What is the difference between your two lines of pennies?  
*The difference between 15 and 11 is 4.*
- Repeat with other pairs of cards.
- How many differences can you find between pairs of numbers?



11

12

13

14

15

16

17

18

19

20



## Check your understanding Questions

Write the missing number in each bar diagram.

£18	
£13	?

£21	
£17	?

£19	
£12	?

---

Caitlyn has spent £15.  
She has £6 left.  
How much did she have to start with?

*Fold here to hide answers*

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## Check your understanding Answers

Write the missing number in each bar diagram.

£18	
£13	£5

£21	
£17	£4

£19	
£12	£7

Do children count up to find the difference? Answers of £6, £5 and £8 respectively suggest children may have included the initial number in the count.

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Caitlyn has spent £15.  
She has £6 left.  
How much did she have to start with? £21. An answer of £9 suggests a misreading of the question.