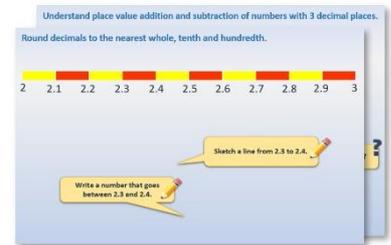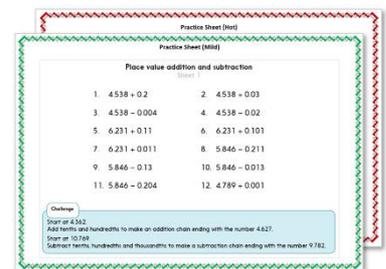# Week 9, Day 3
Count back to subtract (2)

Each day covers one maths topic. It should take you about 1 hour or just a little more.
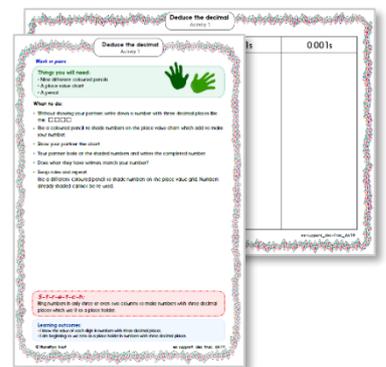
1. Start by reading through the **Learning Reminders**.
    They come from our *PowerPoint* slides.

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

Subtract pairs of 2-digit numbers by counting back.

I have **85p**. Here it is…

If I buy a banana for **33p** how much will I have left?

First count back in 10s, taking a 10p coin away each time we count back 10…
75, 65, 55

Now we have to take away 3p from 55p, what can we do?

We know 5 – 3 is 2, so we can swap the 5p coin for a 2p…

… that leaves **52p**.

85 - 33 = 52

Learning Reminders

Subtract pairs of 2-digit numbers by counting back.

Here is my **85p**.

If I buy an apple for **34p** how much will I have left?

First we take away the 30p and count back 3 tens. ...**75, 65, 55**.

Now we have to take away 4p from 35p, what can we do?

We know 5 – 4 is 1, so we can swap the 5p coin for a 1p...

... that leaves **51p**.

85 - 34 = 51

Practice Sheet Mild
Subtracting 2-digit numbers by counting back

Solve these word problems:

Draw number line jottings or use 10p and 1p coins (to represent 10s and 1s) to help you to calculate the answers.

1. Jake has 75 football cards. He gives his friend Ben 34. How many does he have after doing this?

2. Eve buys a bag of 87 hair bobbles. She gives her friend Bella 24 of them. How many is Eve left with?

3. The class are doing a show and can seat 98 people. They sell 35 tickets. How many more do they need to sell to have a full house?

4. Mrs Risby has a piece of string 95cm long. She cuts Miss Lord 42cm of her string. How much does she have left?

Challenge

Write two more subtraction problems of your own. Can your partner solve them?

Practice Sheet Hot
Subtracting 2-digit numbers by counting back

Solve these word problems:

Draw number line jottings or use 10p and 1p coins (to represent 10s and 1s) to help you to calculate the answers.

1. Sam has 96 football cards. He gives his friend Jake 25. How many does he have left?

2. Eve buys a bag of 87 hair bobbles. She gives her friend Bella 24 of them. How many is Eve left with?

3. Harry has 45 sweets, he gives one each to all 27 children. How many does he have left?

4. The class are doing a concert and the hall can seat 72 people. They sell 24 tickets. How many more do they need to sell to have a full house?

Challenge

Think of two more word problems which require you to cross a multiple of ten when subtracting. Can your partner solve them?

Practice Sheets Answers

Subtracting 2-digit numbers by counting back (mild)

1. 75 - 34 =   Jake now has 41 football cards.
2. 87 - 24 =   Eve is left with 63 hair bobbles.
3. 98 - 35 =   They need to sell 63 more tickets to have a full house.
4. 95 - 42 =   Mrs Risby has a 53cm long piece of string left.

Subtracting 2-digit numbers by counting back (hot)

1. 96 - 25 =   Sam now has 71 football cards.
2. 87 - 24 =   Eve is left with 63 hair bobbles.
3. 45 - 27 =   Harry has 18 sweets left.
4. 72 - 24 =   They need to sell 48 more tickets to have a full house.

Make 95p using the 10p and 5p coins

Now roll the dice. Take that number of 10p coins away. Write a number sentence to show what you have done.

E.g. Roll a 4.

Take away four 10p coins.

Write 95p - 40p = 55p.

Put the coins back. Roll the dice again and subtract the new number of 10p coins. Write the matching subtraction.

S-t-r-e-t-c-h:
How many different subtractions can you find?

Investigation
Land on 6

- Choose a number between 20 and 30.
- Start on 90 and repeatedly jump back in steps of your chosen number.
- You are aiming to land on 6.
  (NB You need to jump back the same number each time.)

So, for example, you could start on 90 and keep jumping back 24.
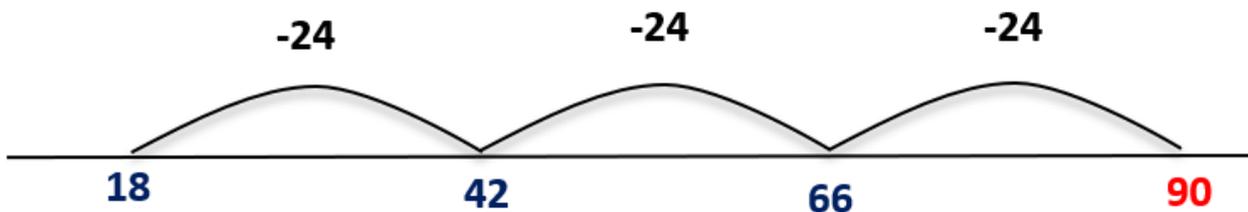
Subtracting 24 isn't going to work. ☹

Your challenge is to find numbers between 20 and 30 for your steps, which do work. 😊

Challenge

Choose other start numbers between 90 and 100.

See if there are other numbers between 20 and 30 which you can jump back to land on 6, when starting on numbers between 90 and 100.