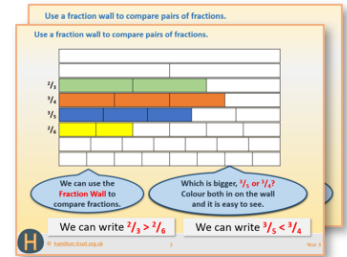


Week 7, Day 2

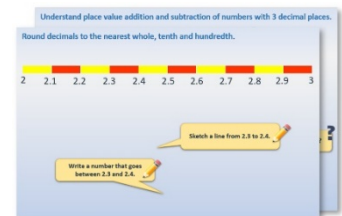
Use counting up (Frog) to subtract 2-digit numbers

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

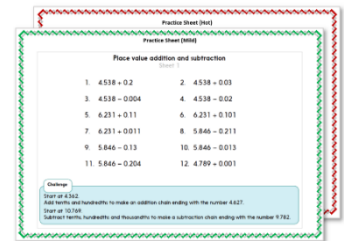
1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.



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

Use counting up to subtract.

Frog is back!



RIBBIT!

How can Frog help us with subtraction?

Frog jumps on a number line, to find differences.

Frog starts at the smaller number, then counts up to the bigger number.

He first jumps to the next 10.

We add his jumps to find the answer to the subtraction.

Learning Reminders

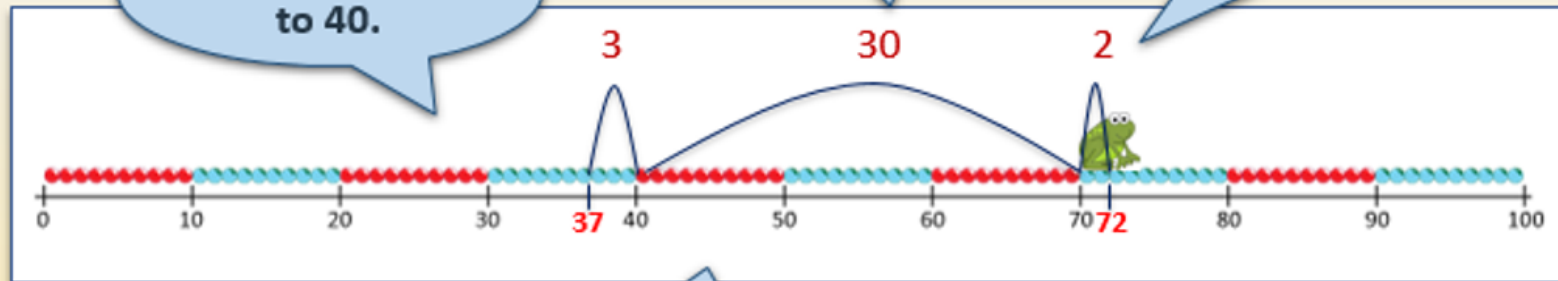
Use counting up to subtract.

Let's see how Frog counts up on the bead line to find $72 - 37$.

B ... and another **30** in tens to jump from 40 to 70...

C ... then **2** to hop from 70 to 72.

A Hop **3** beads to 40.



D Add the jumps, put the largest number first:
 $30 + 3 + 2 = ?$

$$72 - 37 = 35$$

Learning Reminders

Use counting up to subtract.

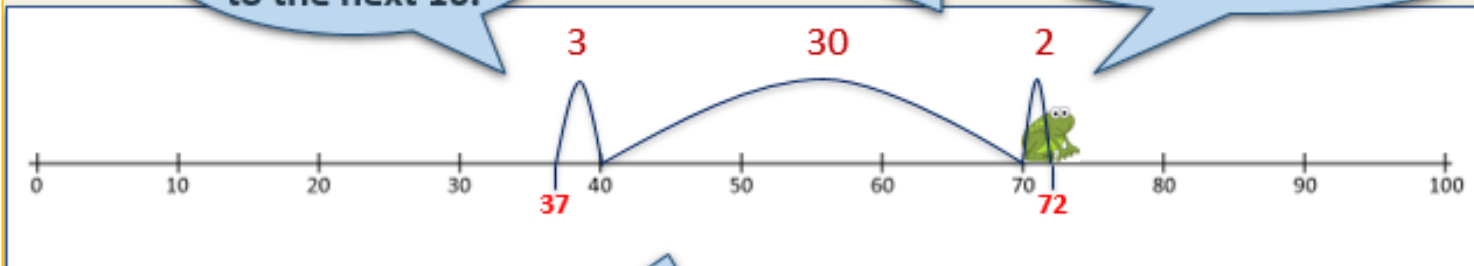
Let's try that without the beads...

Mark 37 and 72 on the landmarked line.

Frog starts at 37 and jumps to the next 10.

... and another **30** to 70...

... then **2** to 72.



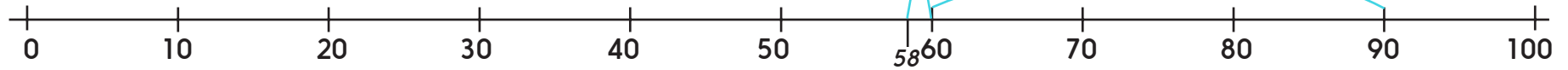
Add the jumps, put the largest number first:
 $30 + 3 + 2 = ?$

$$72 - 37 = 35$$

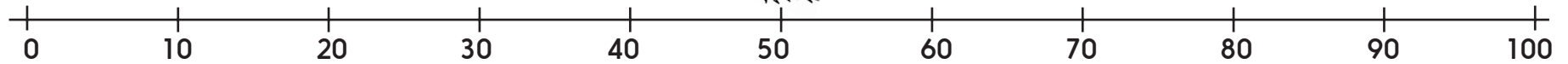
Practice Sheet Mild

Subtraction practice

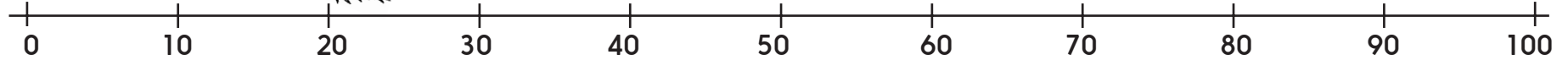
$90 - 58 =$



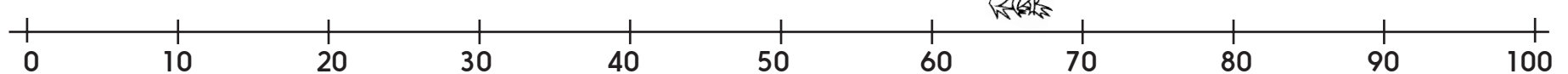
$80 - 52 =$



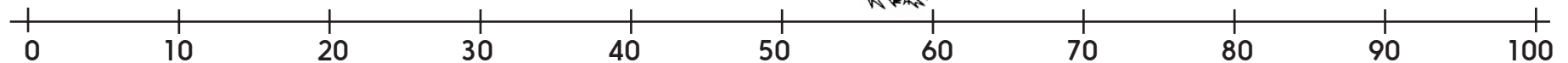
$50 - 24 =$



$85 - 67 =$



$83 - 58 =$



Practice Sheet Hot

Subtraction practice

Pick two snakes and calculate the difference in their length.
Work out as many as you can.

Which pair have the biggest difference? Which pair have the smallest difference?

82cm

A



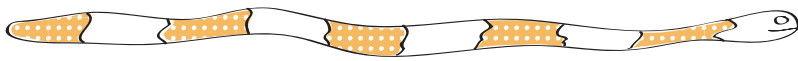
58cm

B



75cm

C



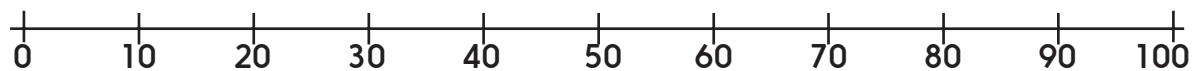
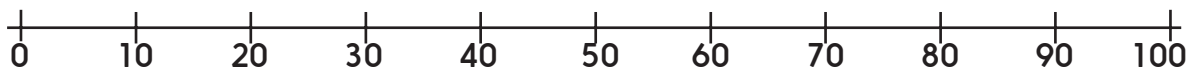
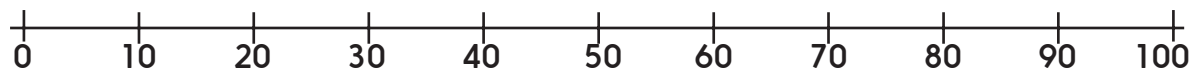
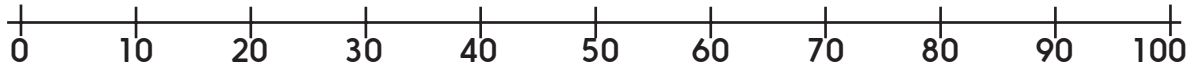
49cm

D



71cm

E



Challenge

Snake F is 103cm long. How much longer is that than each of the other snakes?

Practice Sheet Answers

Subtraction practice (Mild)

$$90 - 58 = 32$$

$$80 - 52 = 28$$

$$50 - 24 = 26$$

$$85 - 67 = 18$$

$$83 - 58 = 25$$

Subtraction practice (Hot)

$$82\text{cm} - 75\text{cm} = 7\text{cm}$$

$$82\text{cm} - 71\text{cm} = 11\text{cm}$$

$$82\text{cm} - 58\text{cm} = 24\text{cm}$$

$$82\text{cm} - 49\text{cm} = 33\text{cm}$$

$$75\text{cm} - 71\text{cm} = 4\text{cm}$$

$$75\text{cm} - 58\text{cm} = 17\text{cm}$$

$$75\text{cm} - 49\text{cm} = 26\text{cm}$$

$$71\text{cm} - 58\text{cm} = 13\text{cm}$$

$$71\text{cm} - 49\text{cm} = 22\text{cm}$$

$$58\text{cm} - 49\text{cm} = 9\text{cm}$$

Challenge

Snake F is:

21cm longer than Snake A

51cm longer than Snake B

28cm longer than Snake C

54cm longer than Snake D

32cm longer than Snake E

A Bit Stuck?

Hop, jump and hop

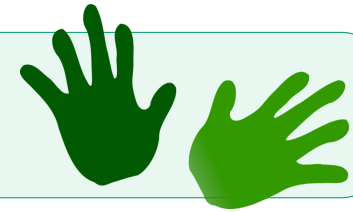
Work in pairs, but write on your own sheet

What to do:

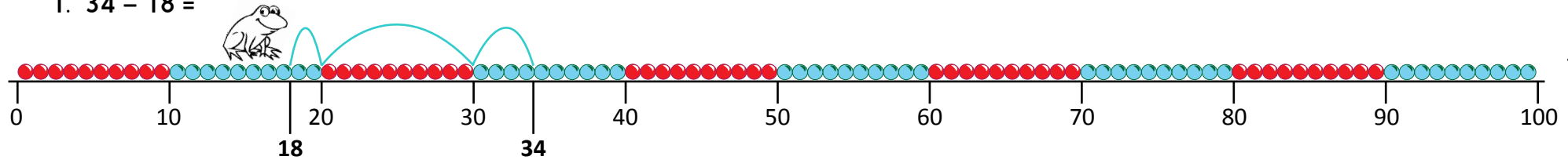
- Mark the 'baby' number on the line.
- Use Frog to hop to the next 10s number.
- Jump to the next 10s number.
- Hop to the bigger number.
- Write the answer to the subtraction.

Things you will need:

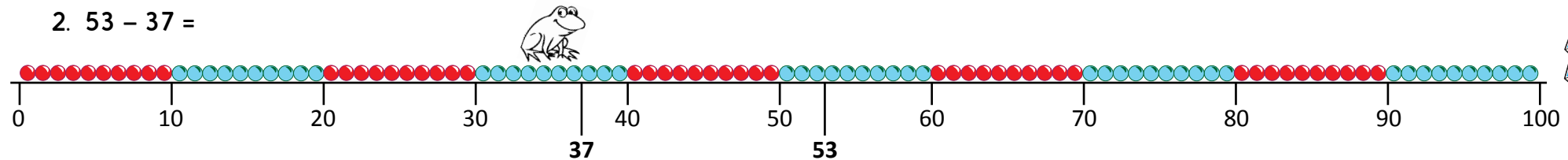
- A pencil
- A sheet of beaded lines or landmarked lines



1. $34 - 18 =$



2. $53 - 37 =$



- Now use Frog to work out at least three of these subtractions on the beaded lines.

$42 - 26$

$81 - 68$

$65 - 49$

$52 - 35$

$93 - 76$

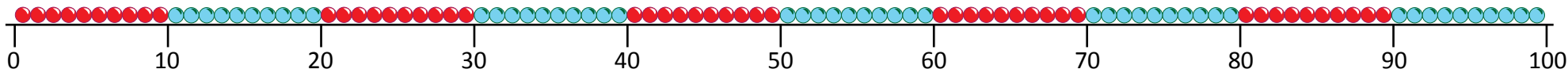
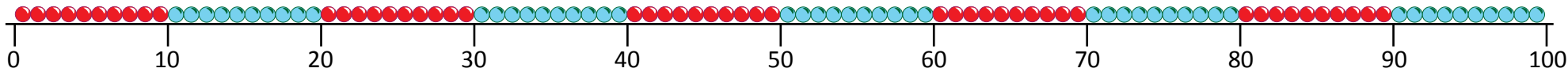
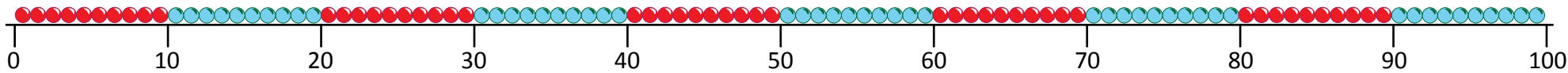
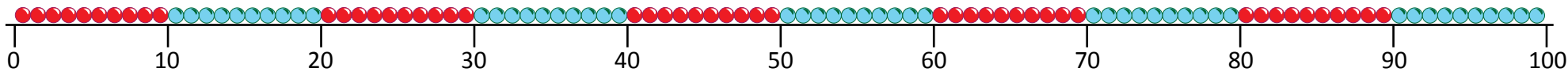
S-t-r-e-t-c-h:

Use landmarked lines instead of beaded lines.

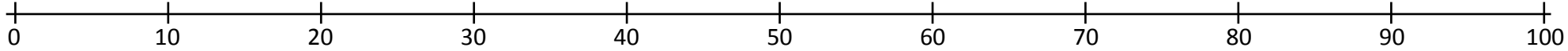
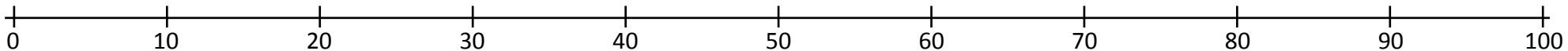
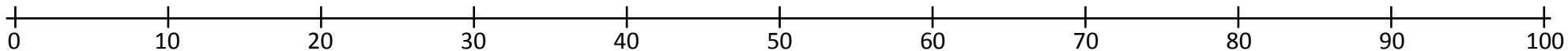
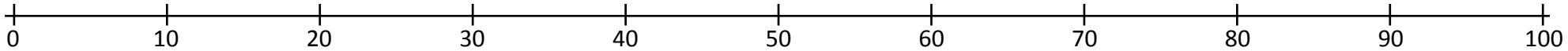
Learning outcomes:

- I can use Frog to subtract numbers with a small difference, e.g. $53 - 37$, using a beaded line to help.
- I am beginning to use Frog to subtract numbers with a small difference, e.g. $53 - 37$, using a landmarked line to help.

A Bit Stuck?
Hop, jump and hop



A Bit Stuck?
Hop, jump and hop



A Bit Stuck?

Hop, jump and hop

