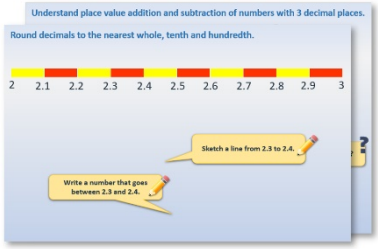
Year 2: Week 1, Day 4
Subtraction using Frog

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.



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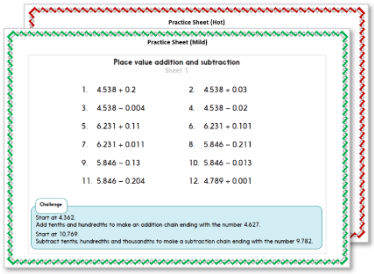
2. Tackle the questions on the **Practice Sheet**.
There might be a choice of either Mild (easier) or Hot (harder)!
Check the answers.



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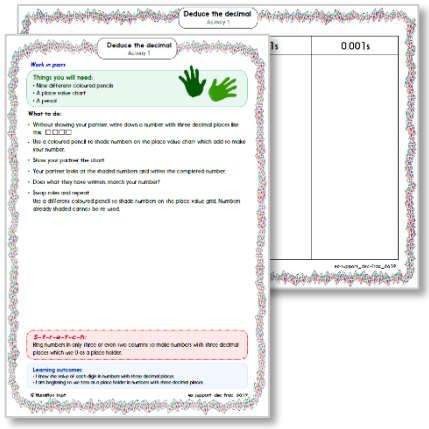
3. Finding it tricky? That's OK… have a go with a grown-up at **A Bit Stuck?**



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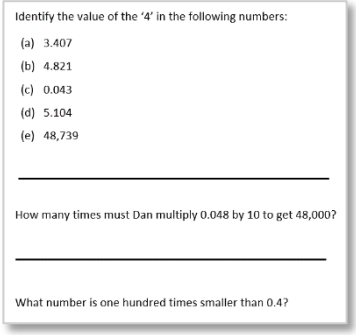
4. Have I mastered the topic? A few questions to **Check your understanding**.
Fold the page to hide the answers!



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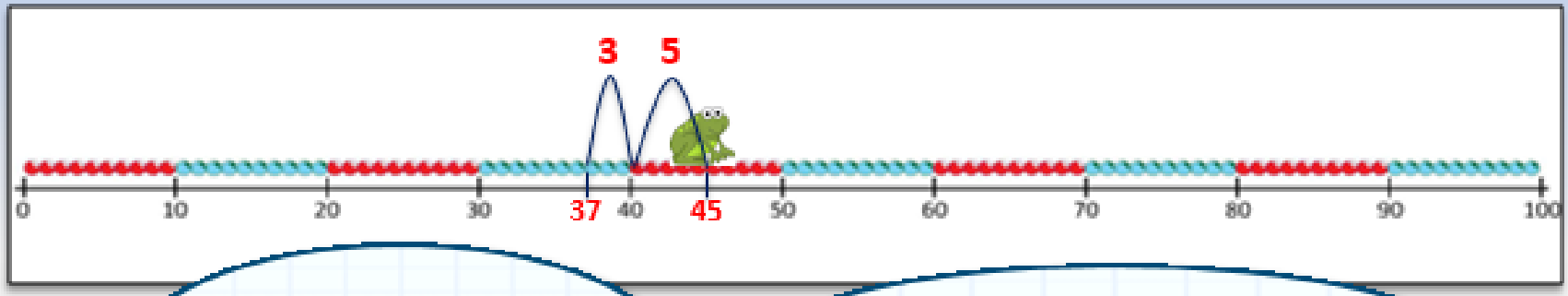
Learning Reminders

Use Frog on a beaded line to subtract (counting up).



Frog is going to work out 45 - 37.

Mark 37 and 45 on the line.

Frog starts at 37.

He hops up to the next 10. How far has he hopped?

Then Frog hops up to 45. How far has he hopped this time?

How far has he hopped altogether? What subtraction number sentence can we write?

45 - 37 = 8

45 subtract 37 is 8.

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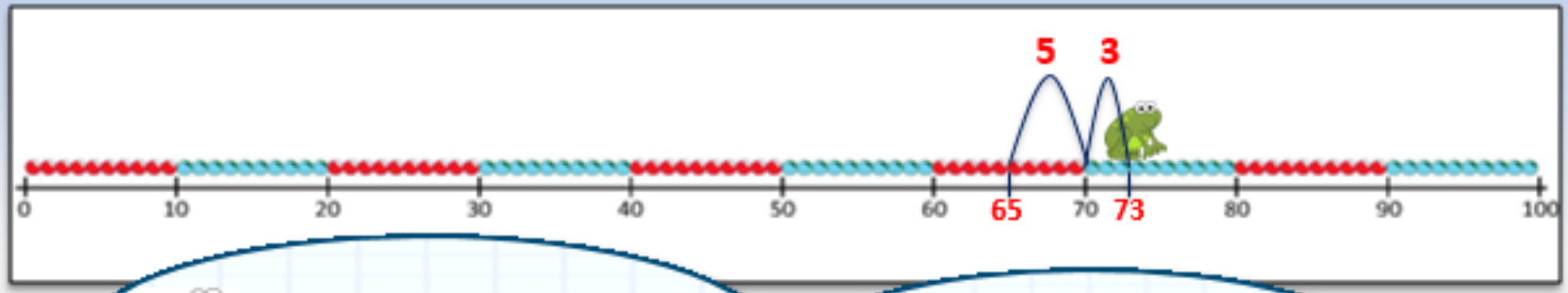
Learning Reminders

Use Frog on a beaded line to subtract (counting up).



Now let's try 73 – 65.

First mark 73 and 65 on the line.

Frog starts at 65, he always starts at the smaller number.

First he hops up to the next 10. How far has he hopped?

Then Frog hops up to 73. How far has he hopped this time?

How far has he hopped altogether? What subtraction number sentence can we write?

73 - 65 = 8

73 subtract 65 is 8.

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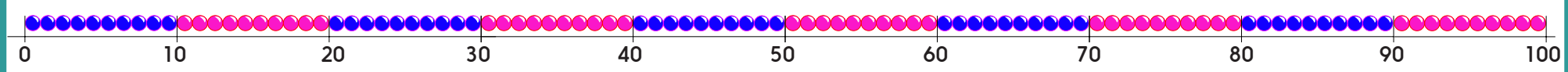
Practice Sheet Mild

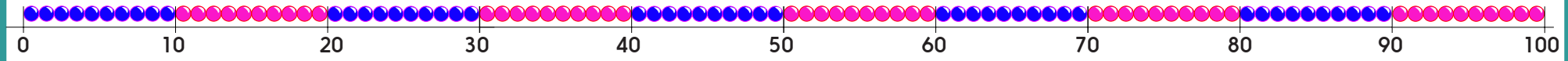
Subtracting 2-digit numbers by counting up

Use Frog (counting up) to solve the following subtractions:

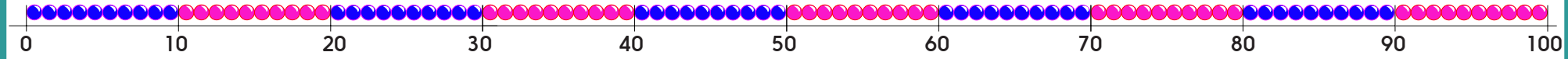
33 - 28



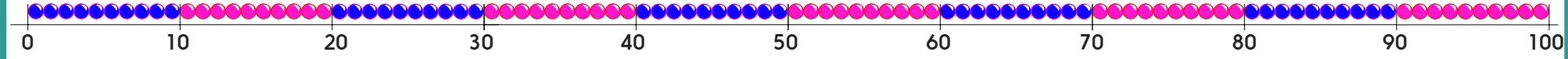
22 - 15



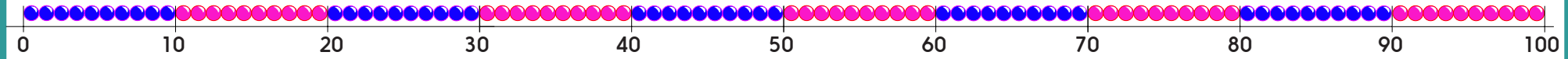
61 - 55



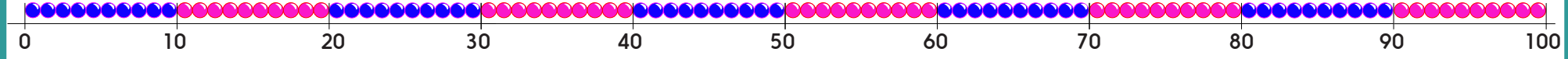
54 - 47



42 - 38



75 - 69



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Practice Sheet Hot

Subtracting 2-digit numbers by counting up

Look at the bar models. Use Frog (counting up) to find out the missing numbers.

33	
28	?

54	
49	?

92	
85	?

75	
67	?

61	
54	?

86	
78	?

Challenge

Create your own bar pictures where the missing number is always 8 or 9.

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Practice Sheets Answers

Subtracting 2-digit numbers by counting on (mild)

33 – 28 = 5
22 – 15 = 7
61 – 55 = 6
54 – 47 = 7
42 – 38 = 4
75 – 69 = 6

Subtracting 2-digit numbers by counting on (hot)

33 – 28 = 5
92 – 85 = 7
61 – 54 = 7
54 – 49 = 5
75 – 67 = 8
86 – 78 = 8

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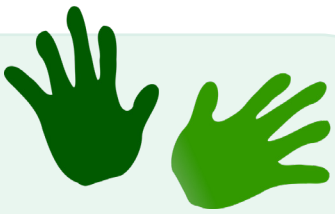
A Bit Stuck?
Tall towers

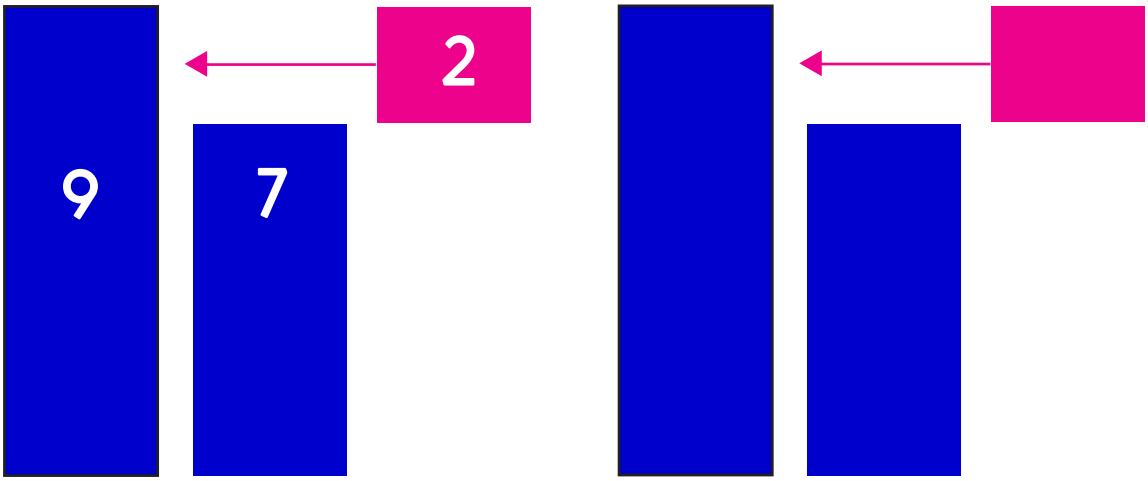
Work in pairs

Things you will need:
- Cubes or Lego bricks
- 6-15 number cards
- A pencil



What to do:

- Shuffle the number cards.
  Place face down in a pile.
- Take the top card.
  Build a tower using that number of cubes or bricks.
- Your partner does the same.
- What is the difference between your two towers?
  Write the three numbers in one of the pictures.
- Repeat with other pairs of cards.



S-t-r-e-t-c-h:
Make a pair of towers with a difference of 3 cubes or bricks.
Write down the pair of numbers.

Learning outcomes:
- I can find a difference between pairs of towers.
- I am beginning to find pairs of towers with a given difference.

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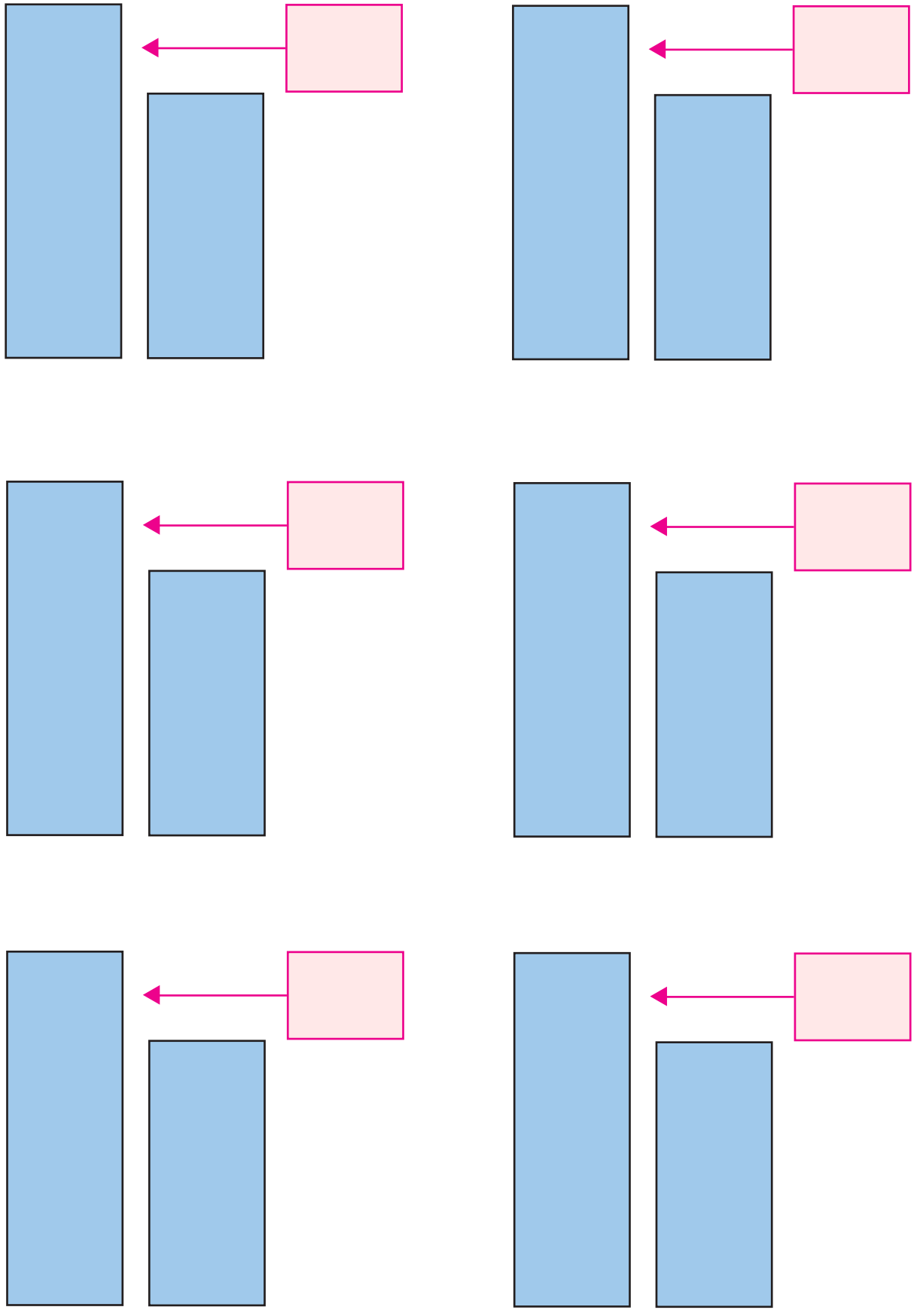
A Bit Stuck?
Tall towers



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Check your understanding

Questions

Draw Frog's hops on a number line to show the difference between 43 and 36.
Draw Frog's hops on a number line to show 65 – 58.

Tell Frog how many hops he will need to do for each of these subtractions:

(a) 45 – 38 (c) 71 - 65

(b) 62 – 45 (d) 34 - 18

Now use Maths Frog to help you solve each one.
Were you right about the number of hops each time?

Fold here to hide answers:

Check your understanding

Answers

Draw Frog's hops on a number line to show the difference between 43 and 36. Hop of **4** to 40 then **3** to 43; 43 – 36 = **7**.
Draw Frog's hops on a number line to show 65 – 58.
Hop of **2** to 60 then **5** to 65; 65 – 58 = **7**.

Tell Frog how many hops he will need to do for each of these subtractions:

(a) 45 – 38 2 hops. 2, then 5

(b) 62 – 45 3 hops. 5, then 10 then 2

(c) 71 – 65 2 hops. 5, then 1

(d) 34 – 18 3 hops. 2, then 10 then 4

Now use Maths Frog to help you solve each one.
Were you right about the number of hops each time?
N.B. some children may realise that they can solve (b) and (d) in 2 hops – hops of 5 then 12 for (b) and hops of 2 then 14 for (d). This shouldn't be discouraged! The children's hops should clearly show that they understand how to use a 10s number as a bridge and that the answer to the subtraction is found by adding the hops.

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