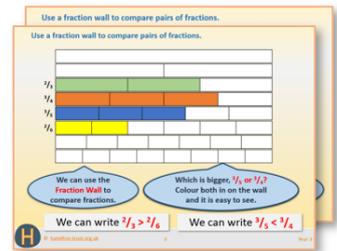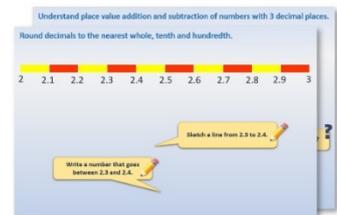# Week 12, Day 2
Use Frog to subtract (1)

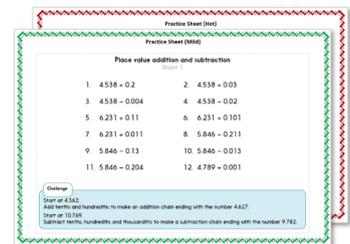**Each day covers one maths topic. It should take you about 1 hour or just a little more.**

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)!
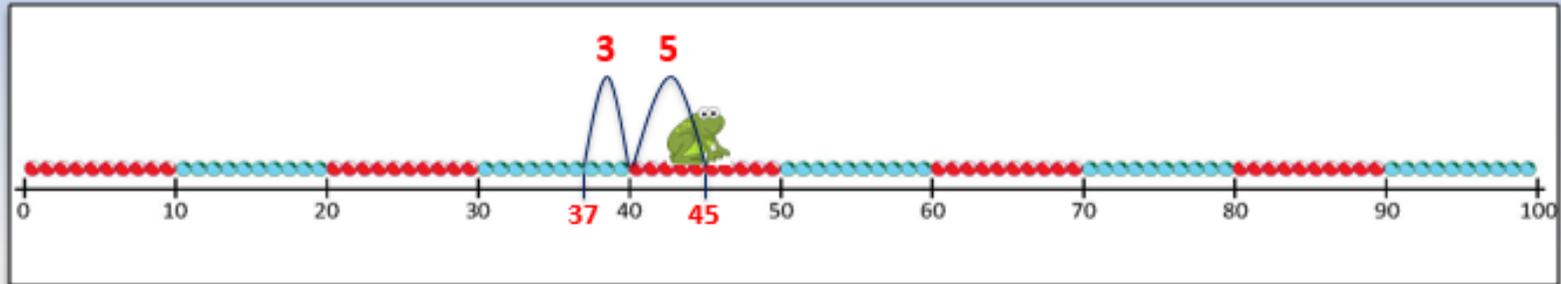   Check the answers.

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

Maths Frog is going to help us subtract numbers on a **beaded number line**. Let's try **45 – 37**.

First, mark **37** and **45** on the line.

Frog starts at **37**.

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

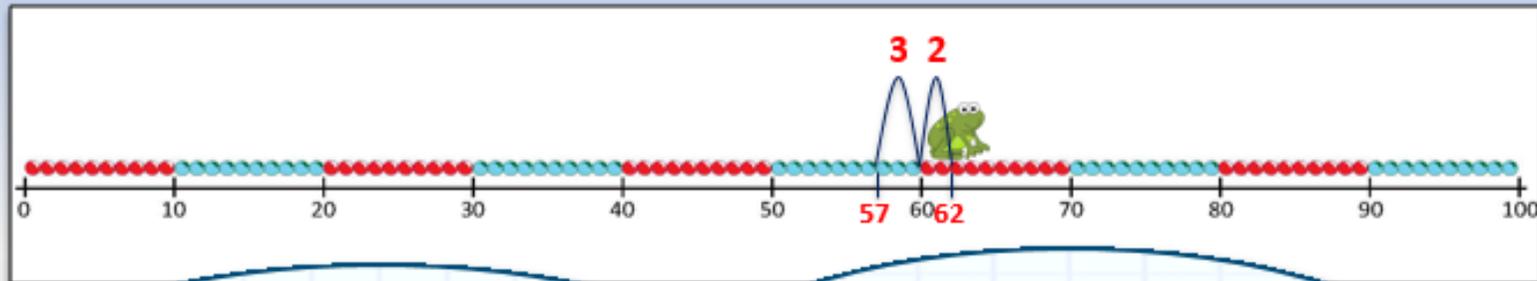Then Frog hops to **45**. How far has he hopped this time?

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

45 subtract 37 is **8**.

45 - 37 = **8**

Learning Reminders

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

3 2

0 10 20 30 40 50 57 60 62 70 80 90 100

Now let's try 62 – 57.

Let's mark 62 and 57 on the line. What do you think Frog will do to find the answer?

Frog starts at 57, he always starts at the smaller number.

First he hops up to the next 10. How far has he hopped?
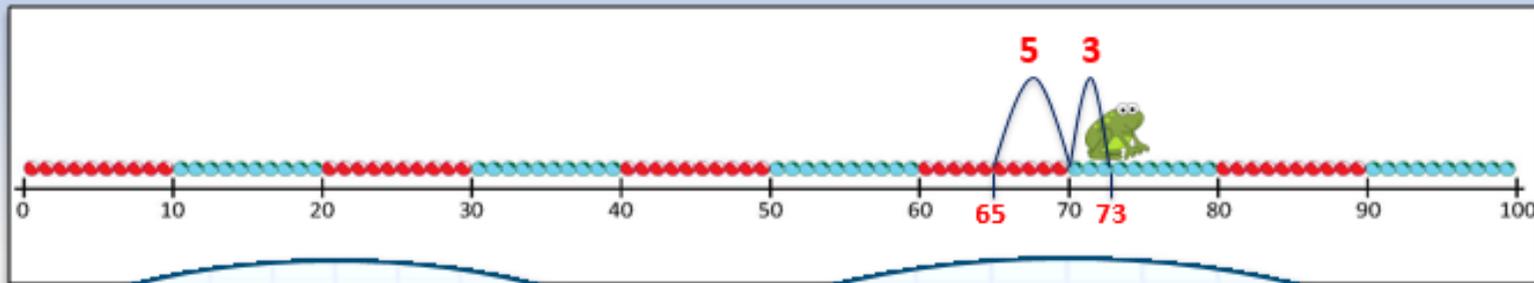
Then Frog hops up to 62. How far has he hopped this time?

How far has he hopped altogether? What subtraction number sentence can we write?
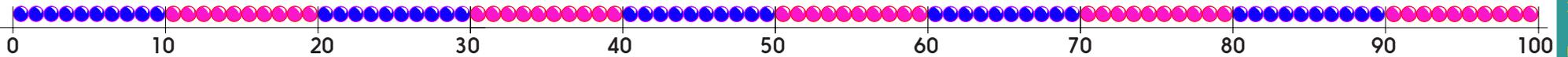
62 subtract 57 is 5.

62 - 57 = 5

Learning Reminders

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

5   **3**

0   10   20   30   40   50   60   **65**   70 **73**   80   90   100

Now let's try **73** – **65**.

Let's mark **73** and **65** on the line. What do you think Frog will do to find the answer?

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 subtract 65 is **8**.
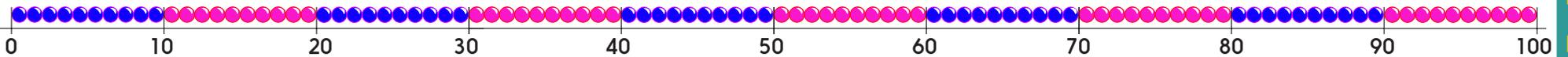
73 - 65 = 8

Practice Sheet Mild
Subtracting 2-digit numbers by counting up

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

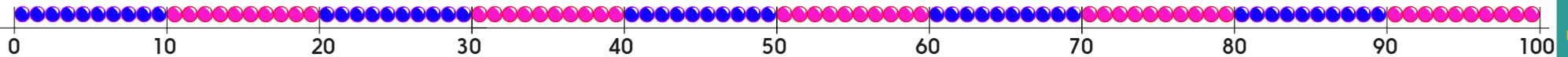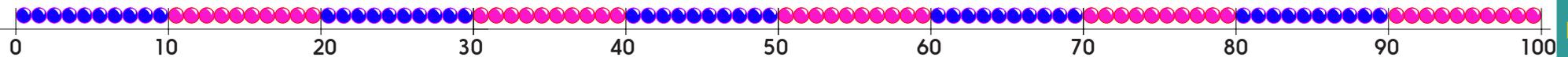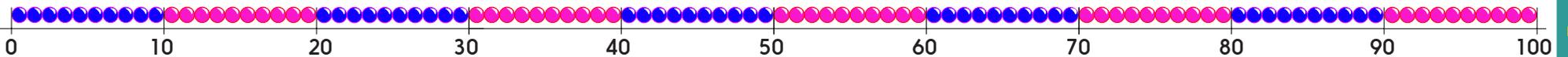42 – 36

0   10   20   30   40   50   60   70   80   90   100

34 – 27

0   10   20   30   40   50   60   70   80   90   100

51 – 46

0   10   20   30   40   50   60   70   80   90   100

74 – 68

0   10   20   30   40   50   60   70   80   90   100

83 – 75

0   10   20   30   40   50   60   70   80   90   100

92 – 88

0   10   20   30   40   50   60   70   80   90   100
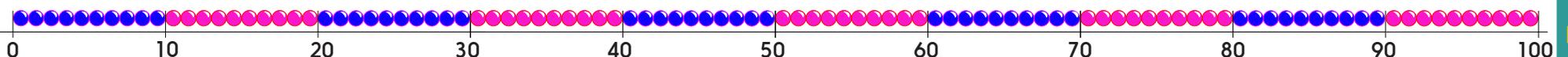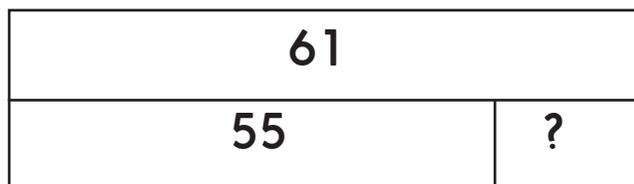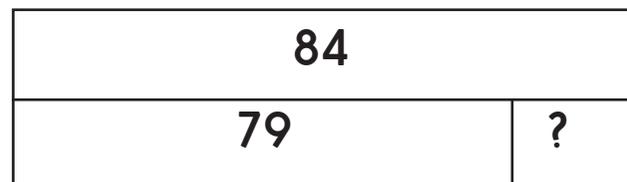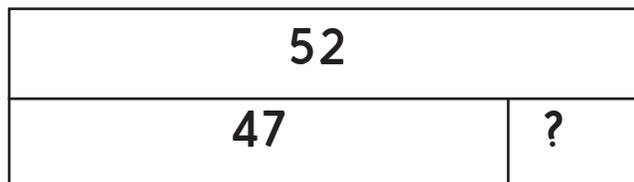
Subtracting 2-digit numbers by counting up

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

52	
47	?

84	
79	?

61	
55	?

75	
68	?

93	
86	?

83	
75	?
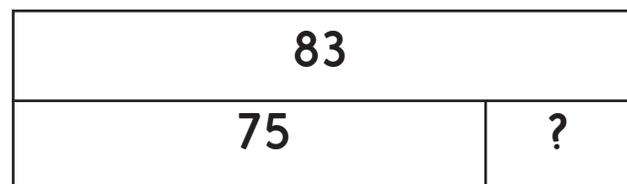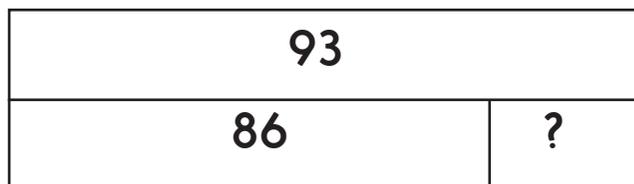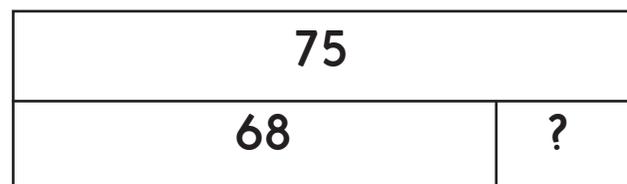
Challenge

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

Practice Sheet Answers

Practice Sheet (Mild)

42 – 36 = 6
34 – 27 = 7
51 – 46 = 5
74 – 68 = 6
83 – 75 = 8
92 – 88 = 4

Practice Sheet (Hot)

52	
47	5

84	
79	5

61	
55	6

75	
68	7

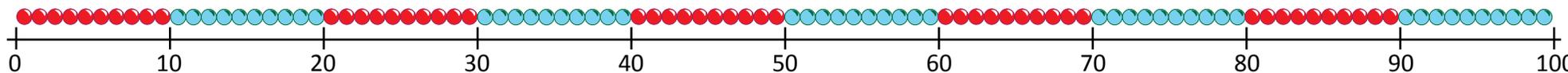| 93	
86	7

83	
75	8

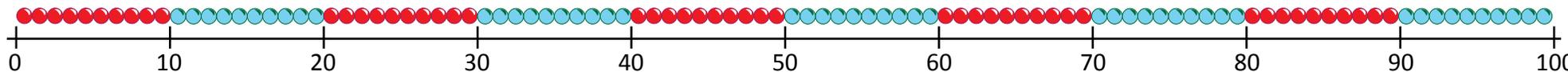**What to do**:

Mark the first number in the sum on the line.

Work out how much is needed to make the next 10.

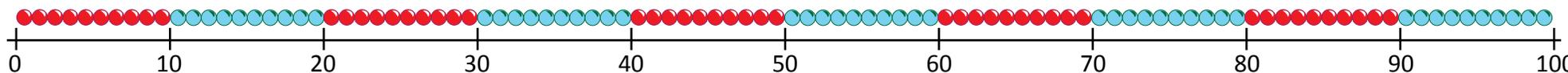Remember to use your pairs to 10 to help you. Write the missing number.

1.   46 + ☐ = 50

0 10 20 30 40 50 60 70 80 90 100
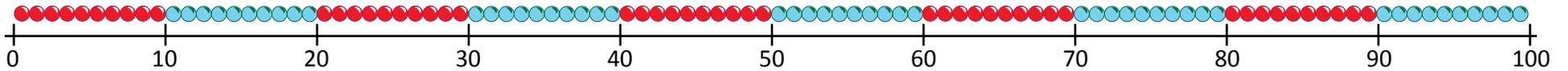
2.   67 + ☐ = 70

0 10 20 30 40 50 60 70 80 90 100

3.   53 + ☐ = 60

0 10 20 30 40 50 60 70 80 90 100

4. $94 + \boxed{} = 100$

5. $25 + \boxed{} = 30$
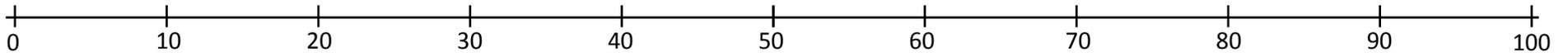
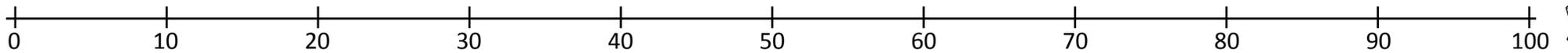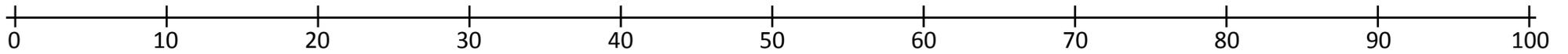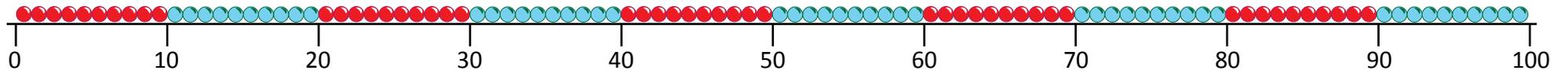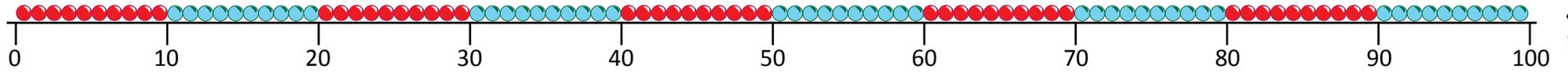6. $38 + \boxed{} = 40$
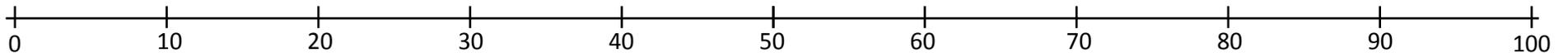
S-t-r-e-t-c-h:
Use your additions to work out the answers to these subtractions: 50 – 46, 70 – 67 and 60 – 53.

Learning outcomes:
- I can use a bead string or beaded line to help me find how many more to the next 10.
- I am beginning to use landmarked lines and number facts to work out how many more to the next 10.

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Number line 1: 0 10 20 30 40 50 60 70 80 90 100

Number line 2: 0 10 20 30 40 50 60 70 80 90 100

Number line 3: 0 10 20 30 40 50 60 70 80 90 100

Number line 4: 0 10 20 30 40 50 60 70 80 90 100
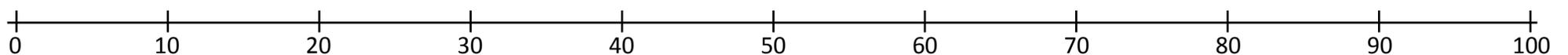
Investigation
Frog's busy day

1. Frog has had a VERY busy day! He's been hopping from two-digit numbers to the next 10s number and then to a larger number all day! Thankfully he didn't have to hop very far. Here are his hops when he was working out 43 − 38.
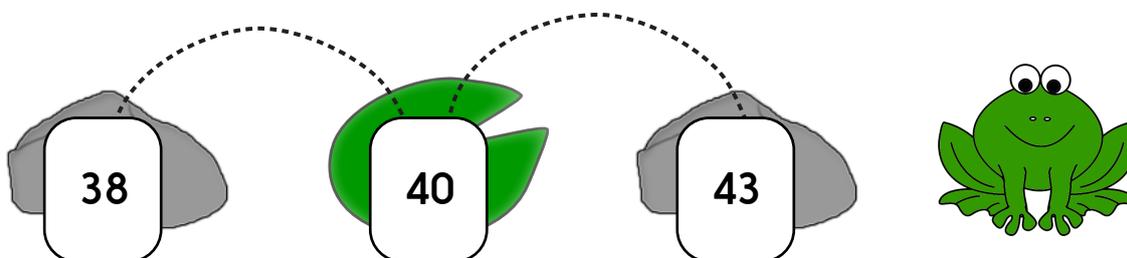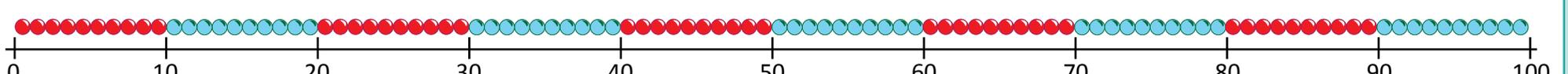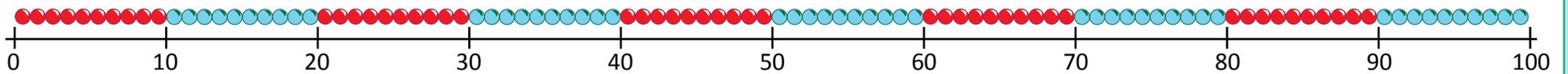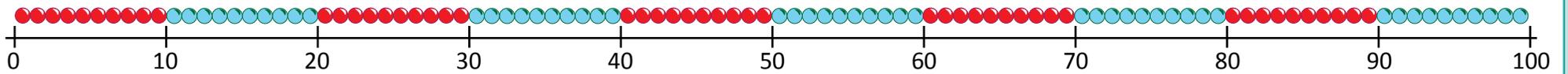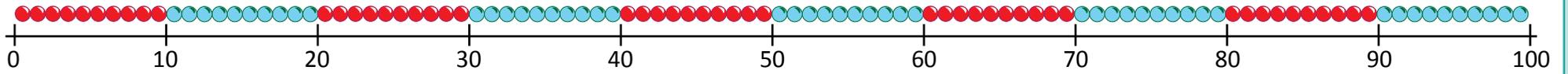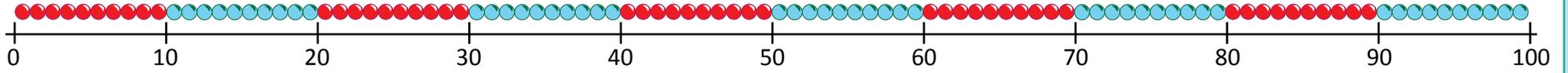

   How far did he hop? 43 − 38 = ?

2. He worked out lots of subtractions where he had to land on the lily pad number 40, and also got an answer of 5!
   Can you list all the subtractions that he worked out? You can use a beaded line to help.

3. Hidden in this grid are lots of other pairs of numbers with a difference of 5.
   Frog has spotted one pair, 64 and 59, so we can write the subtraction 64 − 59 = 5.
   Draw the hops that Frog would have done to work this out.

61	49	26	67	56
54	64	23	16	27
81	28	44	59	21
33	72	76	32	18

4. Help Frog to find as many pairs of numbers as you can with a difference of 5. For each pair, write the matching subtraction. Frog thinks that he can see at least five pairs of numbers, but then he has got the number five on his brain today. Can you find more? Use a beaded line if it helps.

Frog's busy day