

# Place Value and Number

## Numbers and quantities

### Objectives

#### Day 1

**Find one more and one less than any 2-digit number.**

**Estimate numbers on a landmarked line; write numbers in words.**

#### Day 2

**Count on and back in 10s. Find 10 more and 10 less than any 2-digit number.**

**Say the number 10, 20, 30 more and 10, 20, 30 less than 2-digit numbers.**

# Place Value and Number

## Numbers and quantities

### Short Mental Workouts

**Day 1**

**Count in 10s from 10**

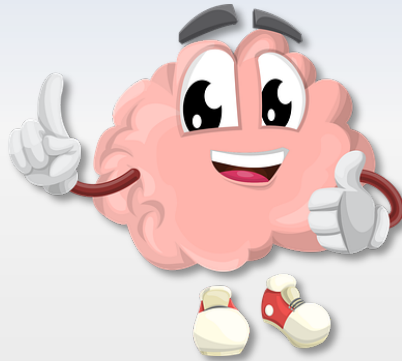
**Day 2**

**Numbers to 100**



# Place Value and Number

## Numbers and quantities

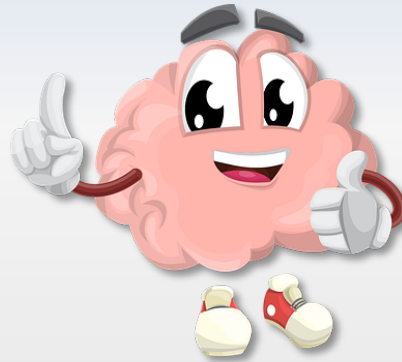


### Short Mental Workout

Count in 10s from 10

# Place Value and Number

## Numbers and quantities



## Short Mental Workout

### Numbers to 100

## 1-100 number grid

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

# Place Value and Number

## Numbers and quantities

### Objectives

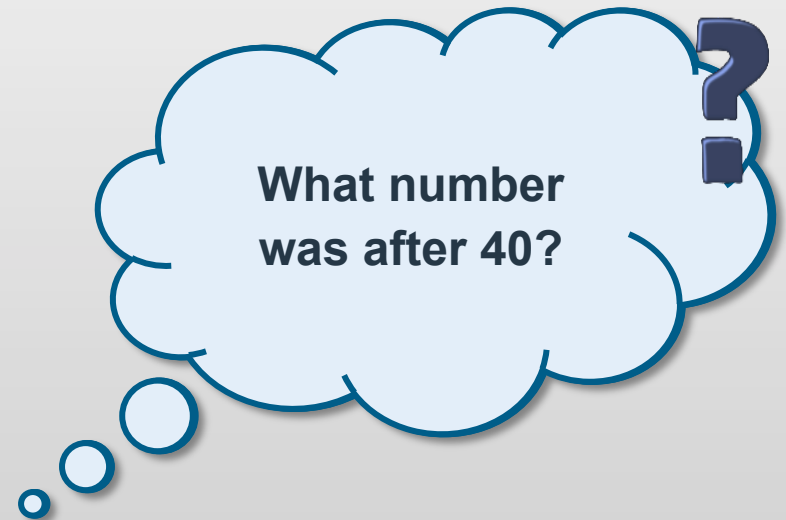
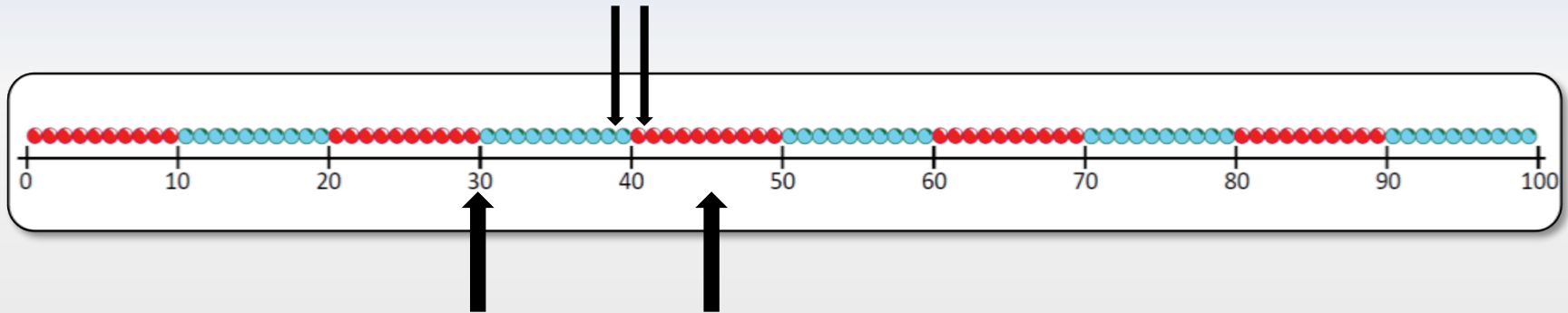
#### Day 1

**Find one more and one less than any 2-digit number.**

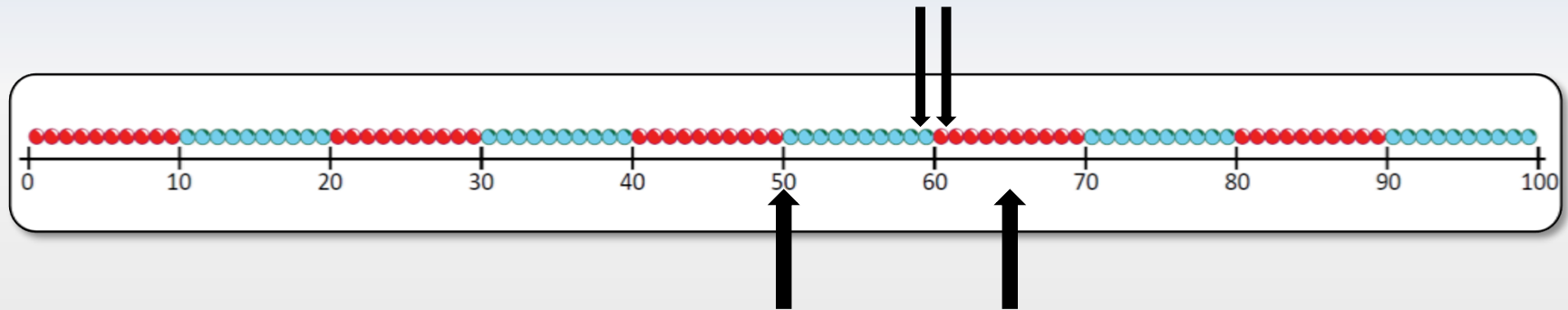
**Estimate numbers on a landmarked line; write numbers in words.**



Day 1: Find one more and one less than any 2-digit number. Estimate numbers on a landmarked line; write numbers in words.



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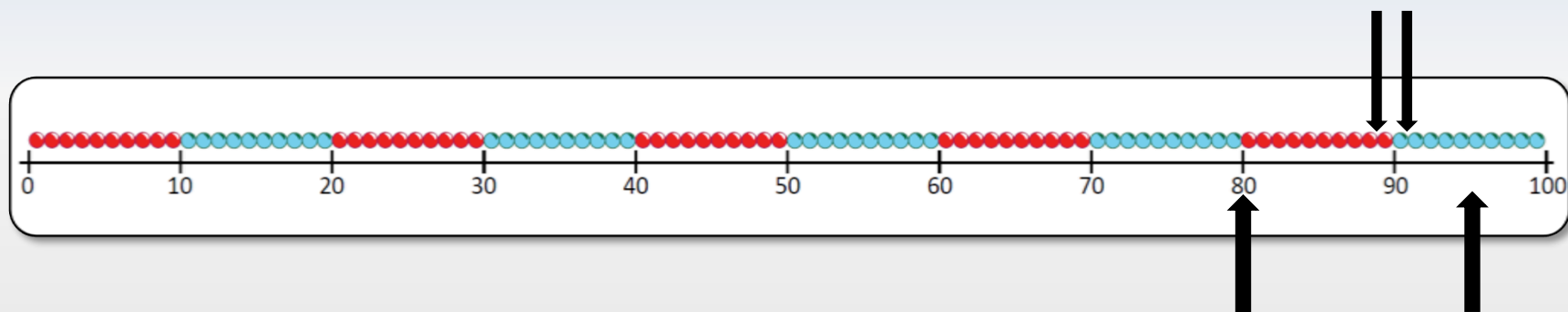


What number  
comes after 60?

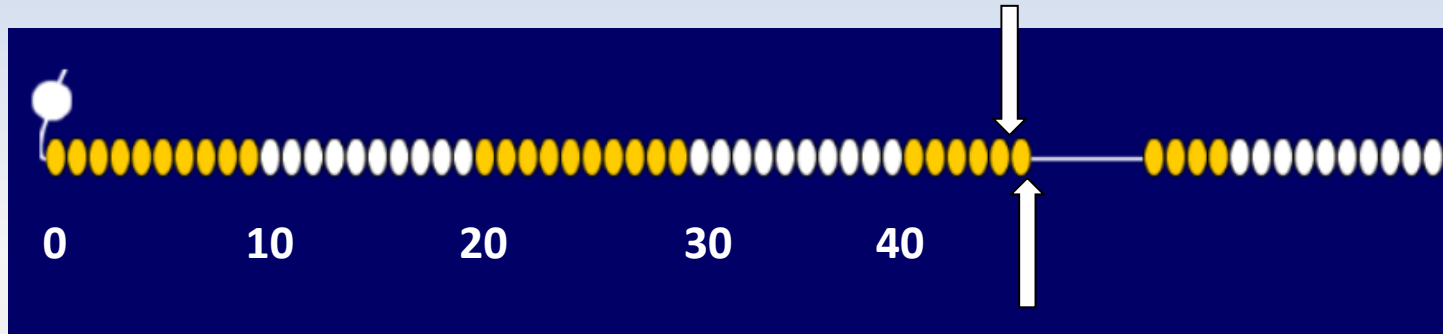




Day 1: Find one more and one less than any 2-digit number. Estimate numbers on a landmarked line; write numbers in words.



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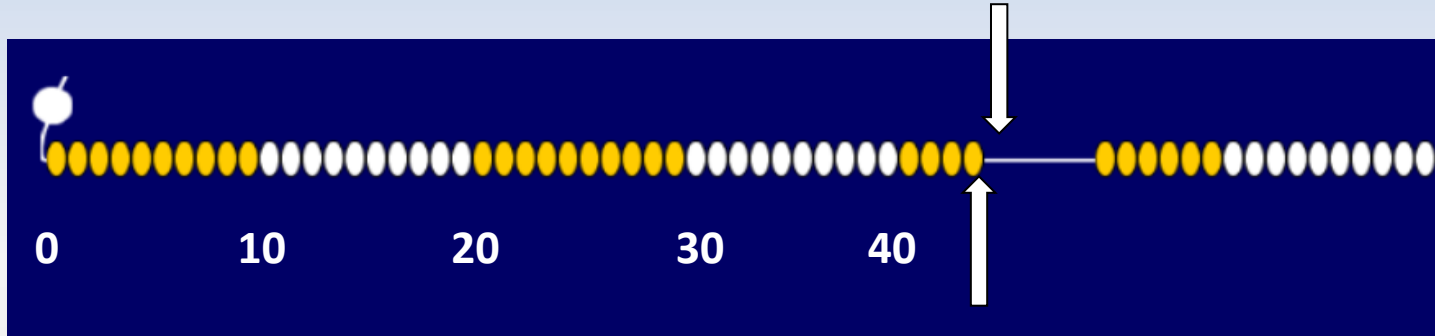
45    46

46 is **one more** than 45.

If I slide one more  
bead across to join  
them, how many will  
there be?

46

Day 1: Find one more and one less than any 2-digit number. Estimate numbers on a landmarked line; write numbers in words.



44 45

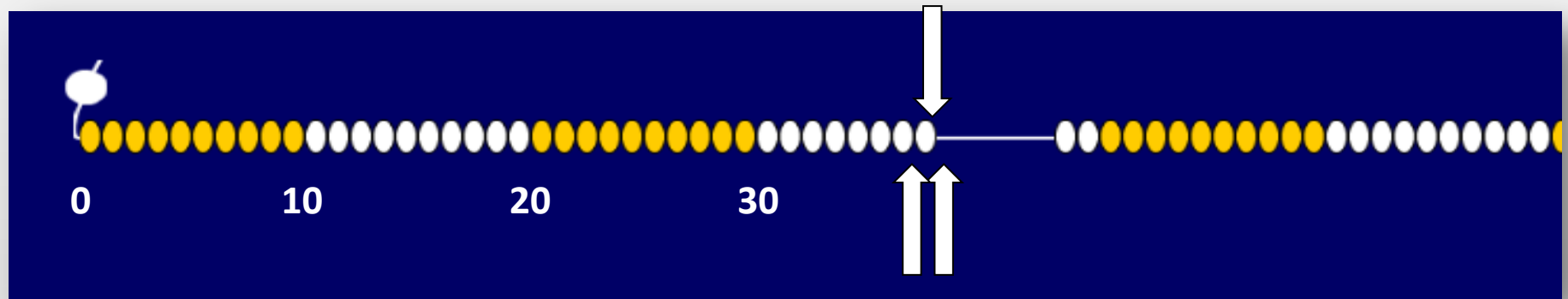
44 is **one less** than 45.

If I put one bead back,  
how many will I be  
showing then?

**44**

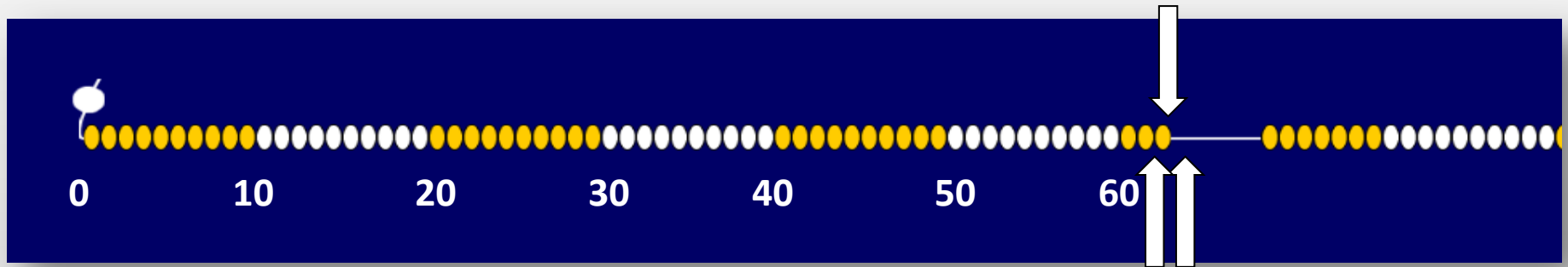
Day 1: Find one more and one less than any 2-digit number. Estimate numbers on a landmarked line; write numbers in words.

Repeat for the numbers  
1 more and 1 less than 38.

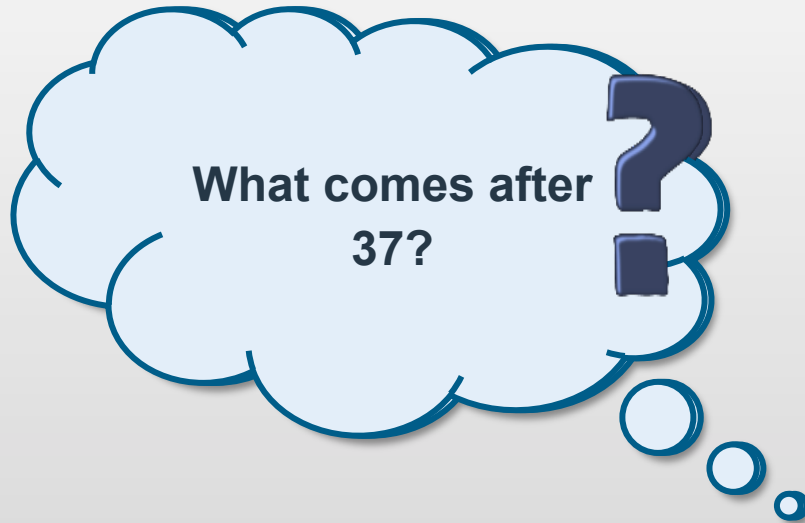
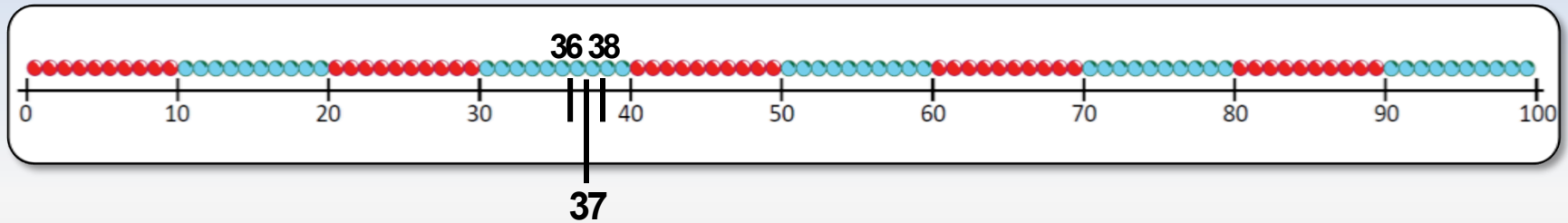


Day 1: Find one more and one less than any 2-digit number. Estimate numbers on a landmarked line; write numbers in words.

Repeat for the numbers  
1 more and 1 less than 63.

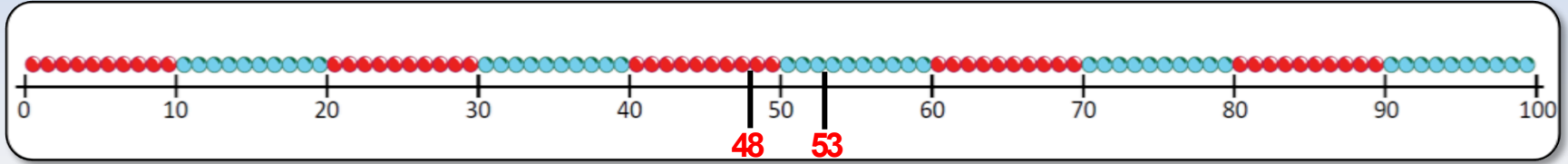


Day 1: Find one more and one less than any 2-digit number. Estimate numbers on a landmarked line; write numbers in words.



38

Day 1: Find one more and one less than any 2-digit number. Estimate numbers on a landmarked line; write numbers in words.



Now mark **48** on the line.

What number comes before? What number comes and after?

?

Mark the numbers on the grid.

1-100 grid

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
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## Investigation

Use 'That Number Square!' from NRICH:  
<https://nrich.maths.org/8169>

Explore 'smart' strategies to put numbers  
back in the correct place on the 100-grid.



# One more/one less

## Sheet 1

Find one more and one less than the numbers in the middle column.

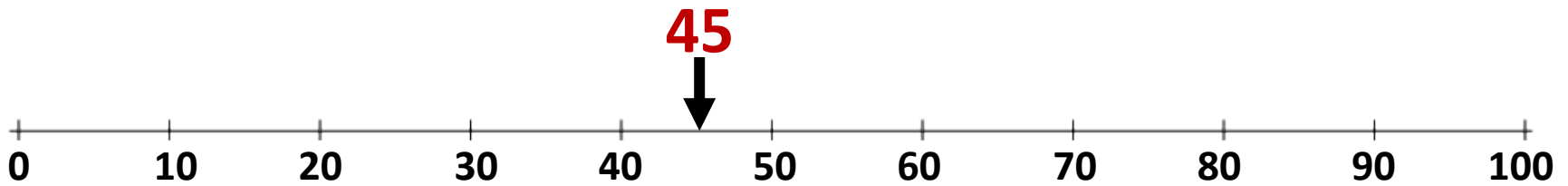
One less	Number	One more
	12	
	17	
	13	
	20	
	22	
	33	
	48	
	64	
	39	
	50	
	59	
	61	

### Challenge

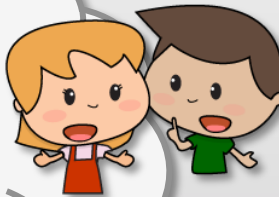
### Challenge

The number one less than the number I am thinking of is 75. What is my number?  
 The number one more than the number I am thinking of is 69. What is my number?  
 The number one less than the number I am thinking of is 29. What is my number?

**Day 1: Estimate numbers on a landmarked line; write numbers in words.**

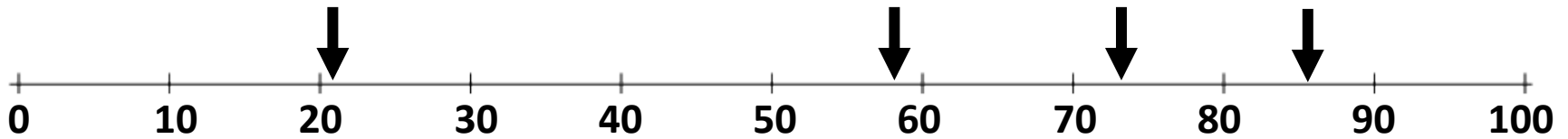


**Talk to your partner.  
What number is the arrow pointing to? Why do you think that?**



**Forty five**

**Day 1: Estimate numbers on a landmarked line; write numbers in words.**



Write the numbers the arrow points to in words on your whiteboards.  
Use the list of tens numbers to help with spelling!

**Twenty**  
**Thirty**  
**Forty**  
**Fifty**  
**Sixty**  
**Seventy**  
**Eighty**  
**Ninety**

## Investigation

Use 'That Number Square!' from NRICH:

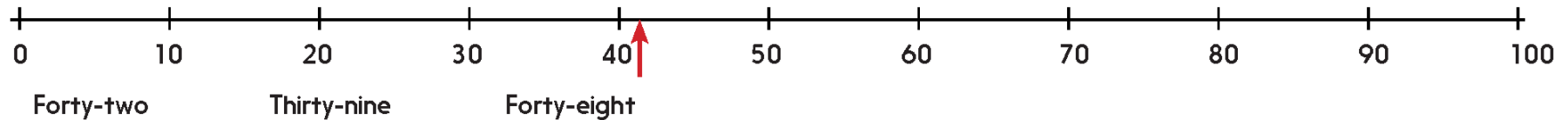
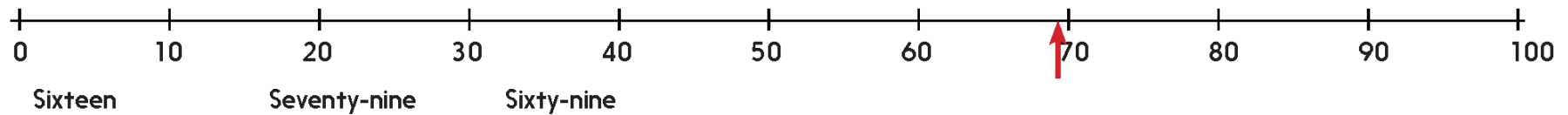
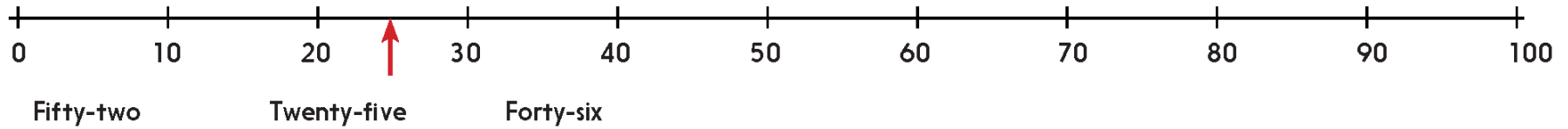
<https://nrich.maths.org/8169>

Explore 'smart' strategies to put numbers back in the correct place on the 100-grid.

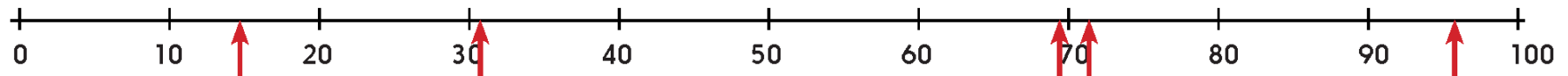
# Mystery numbers

## Sheet 2

Ring the number you think is marked on the line.



Write in words which numbers you think the arrows are pointing to.



# Place Value and Number

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### Objectives


Day 2

Count on and back in 10s. Find 10 more and 10 less than any 2-digit number.

Say the number 10, 20, 30 more and 10, 20, 30 less than 2-digit numbers.

**Day 2: Count on and back in 10s. Find 10 more and 10 less than any 2-digit number.**

**Say the number 10, 20, 30 more and 10, 20, 30 less than 2-digit numbers.**



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51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94		96	97	98	99	100

**Now let's count  
back again.**

**Spider is  
subtracting 10  
each time!**

**Day 2: Count on and back in 10s. Find 10 more and 10 less than any 2-digit number.**

**Say the number 10, 20, 30 more and 10, 20, 30 less than 2-digit numbers.**

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



What number  
is 10 more  
than 65? How  
do you know?

What number  
is 10 less than  
65? How do  
you know?



**Day 2: Count on and back in 10s. Find 10 more and 10 less than any 2-digit number.**

**Say the number 10, 20, 30 more and 10, 20, 30 less than 2-digit numbers.**

1	2	3	4	5	6	7	 8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
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41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97		99	100

**Join in with  
Spider as she  
counts on in  
10s, starting at  
8.**

**Now let's count  
back again.**

**Day 2: Count on and back in 10s. Find 10 more and 10 less than any 2-digit number.**

**Say the number 10, 20, 30 more and 10, 20, 30 less than 2-digit numbers.**

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
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71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

**Y1** - What  
number is 10  
more than 68?  
And 10 less?



**Y2** - What  
number is 20  
more than 68?  
And 20 less?



**Day 2: Count on and back in 10s. Find 10 more and 10 less than any 2-digit number.**

**Say the number 10, 20, 30 more and 10, 20, 30 less than 2-digit numbers.**

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
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51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

**Y1** - What  
number is 10  
more than 47?  
And 10 less?



**Y2** - What  
number is 20  
more than 47?  
And 20 less?



**Day 2: Count on and back in 10s. Find 10 more and 10 less than any 2-digit number.**

**Say the number 10, 20, 30 more and 10, 20, 30 less than 2-digit numbers.**

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

**Y1** - What  
number is 10  
more than 64?  
And 10 less?

**Y2** - What  
number is 30  
more than 64?  
And 30 less?

# Ten more/ten less

## Sheet 1

	Ten less		Ten more	
<input type="text"/>	←	20	→	<input type="text"/>
<input type="text"/>	←	13	→	<input type="text"/>
<input type="text"/>	←	29	→	<input type="text"/>
<input type="text"/>	←	35	→	<input type="text"/>
<input type="text"/>	←	40	→	<input type="text"/>
<input type="text"/>	←	42	→	<input type="text"/>
<input type="text"/>	←	57	→	<input type="text"/>

### Challenge

Choose your own numbers for these.

<input type="text"/>	←	<input type="text"/>	→	<input type="text"/>
<input type="text"/>	←	<input type="text"/>	→	<input type="text"/>

Challenge



## 20 and 30 more/less

### Sheet 3

<input type="text"/>	$\xleftarrow{\text{Twenty less}}$	47	$\xrightarrow{\text{Twenty more}}$	<input type="text"/>
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<input type="text"/>	$\xleftarrow{\hspace{1cm}}$	63	$\xrightarrow{\hspace{1cm}}$	<input type="text"/>
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<input type="text"/>	$\xleftarrow{\hspace{1cm}}$	55	$\xrightarrow{\hspace{1cm}}$	<input type="text"/>
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<input type="text"/>	$\xleftarrow{\hspace{1cm}}$	72	$\xrightarrow{\hspace{1cm}}$	<input type="text"/>
----------------------	-----------------------------	----	------------------------------	----------------------

<input type="text"/>	$\xleftarrow{\text{Thirty less}}$	45	$\xrightarrow{\text{Thirty more}}$	<input type="text"/>
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<input type="text"/>	$\xleftarrow{\hspace{1cm}}$	52	$\xrightarrow{\hspace{1cm}}$	<input type="text"/>
----------------------	-----------------------------	----	------------------------------	----------------------

<input type="text"/>	$\xleftarrow{\hspace{1cm}}$	64	$\xrightarrow{\hspace{1cm}}$	<input type="text"/>
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<input type="text"/>	$\xleftarrow{\hspace{1cm}}$	32	$\xrightarrow{\hspace{1cm}}$	<input type="text"/>
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# Place Value and Number

## Numbers and quantities



**Well Done! You've completed this unit.**

### Objectives

#### Day 1

**Find one more and one less than any 2-digit number.**

**Estimate numbers on a landmarked line; write numbers in words.**

#### Day 2

**Count on and back in 10s. Find 10 more and 10 less than any 2-digit number.**

**Say the number 10, 20, 30 more and 10, 20, 30 less than 2-digit numbers.**

## Problem solving and reasoning questions

### Year 1

What is the number after...

(a) 46? (b) 59? (c) 80?

What is the number before...

(a) 81? (b) 70? (c) 39?

Mystery number

-- I add 10 to my number and get 75. What is my number?

--10 less than my number is 42. What is my number?

Finish the sequences:

68, 58, 48, , , ,

32, , 52, 62, , ,



## Problem solving and reasoning questions

### Year 2

What number adds to 63 to make 83?

What number is subtracted from 85 to give 55?

Write the missing numbers in the sequences:

13, , 53, , 93

96, 76, , ,

81, , 61, , ,

Start with 2. Keep adding 20. What is the last 2-digit number you write?

## Problem solving and reasoning **answers**

### Year 1

What is the number after...

(a) 46? **47** (b) 59? **60** (c) 80? **81**

What is the number before...

(a) 81? **80** (b) 70? **69** (c) 39? **38**

Check these and the following questions on a 1-100 grid.

Mystery number

-- I add 10 to my number and get 75. What is my number? **65**

--10 less than my number is 42. What is my number? **52**

Finish the sequences:

68, 58, 48, **38, 28, 18, 8**

32, **42, 52, 62, 72, 82, 92**

## Problem solving and reasoning **answers**

### Year 2

What number adds to 63 to make 83? **20**

What number is subtracted from 85 to give 55? **30**

Write the missing numbers in the sequences:

13, **33**, 53, **73**, 93

96, 76, **56**, **36**, **16**

81, **71**, 61, **51**, **41**, **31**

Start with 2. Keep adding 20. What is the last 2-digit number you write? **82 – the sequence is 22, 42, 62, 82 – the next would be 102.**