Maths

Counting in Tens

Aim

- To count forwards and backwards in steps of ten from any number.

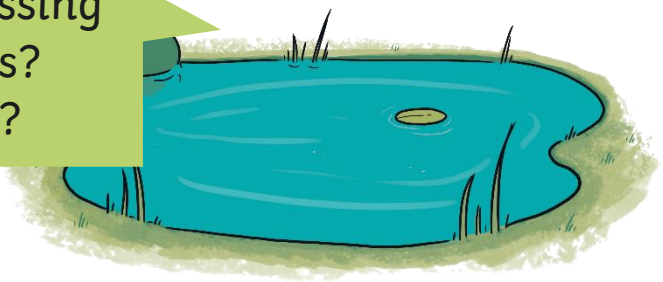
Success Criteria

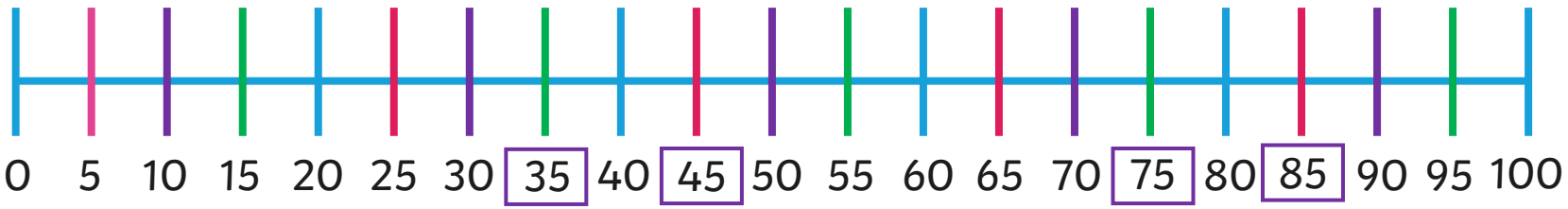
- I can use place value to spot a pattern.
- I can work out the next numbers in a sequence.
- I can explain what happens to the ones digit and the tens digit.
- I can use the pattern to help me count on and back from any number.

Counting in Tens

Remember It

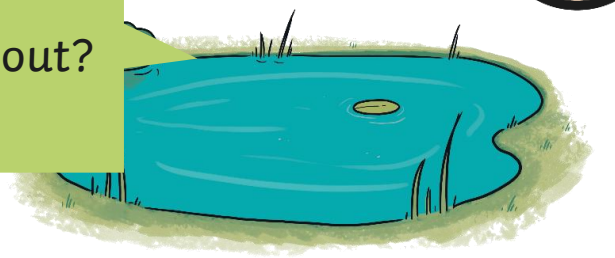
What numbers are missing on the number lines? How do you know?

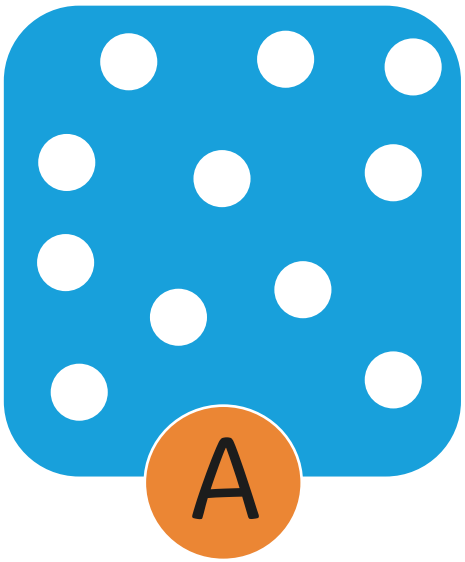


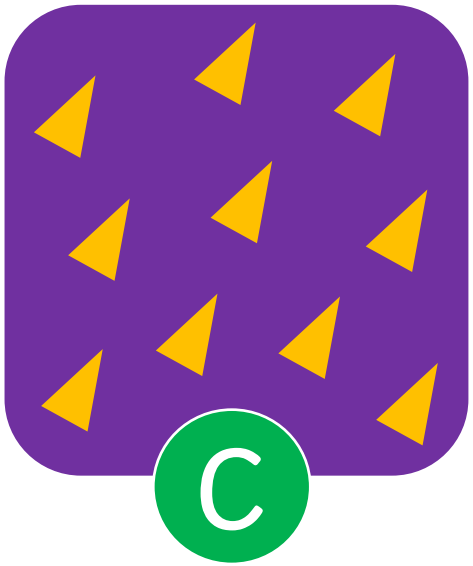


Remember It

Which is the odd one out?
Prove it!





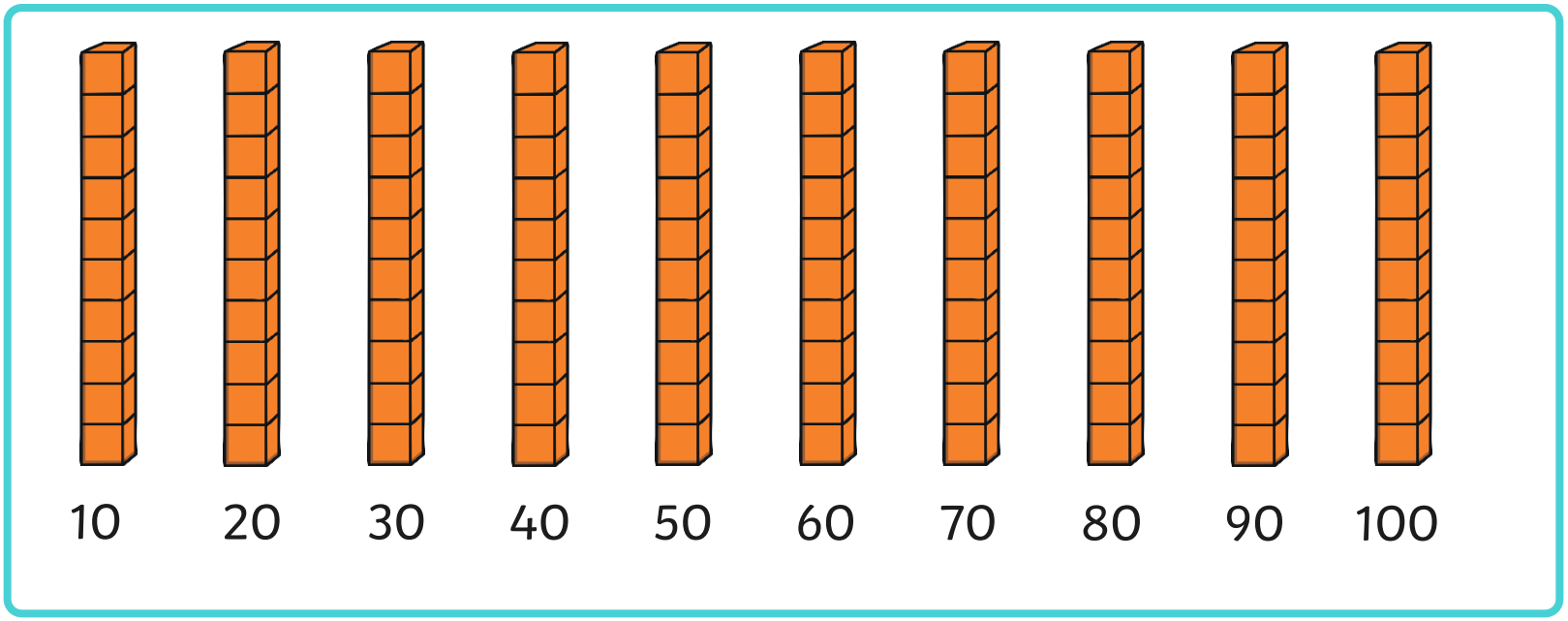


A is the odd one out.
There are 11 circles. B and C both have 10 shapes each.

Counting in Tens from Zero

Whole Class

Can you count to 100 in steps of 10?



Counting in Tens from Zero

Whole Class

How much money is there?

There is 60 pence.

10 20 30 40 50 60

How many pencils are there?

There are 80 pencils.

1 ten 2 tens 3 tens 4 tens 5 tens 6 tens 7 tens 8 tens

Counting in Tens from Zero

Let's count in tens and watch what happens on the 100 square.

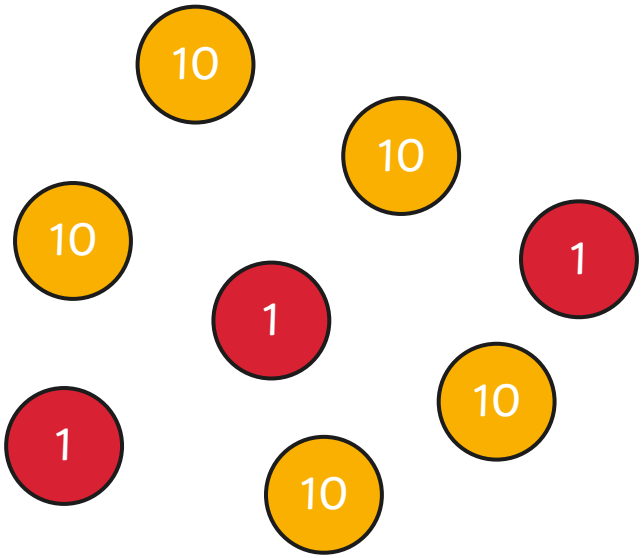
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

What do you notice?

Counting in Tens from Any Number

Can you count in tens to find the total?

What do you notice?



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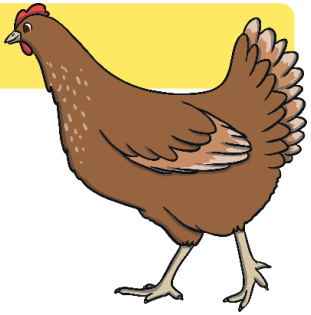
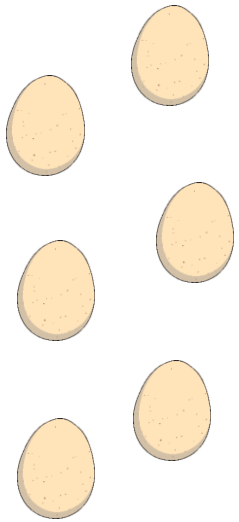
Counting in Tens from Any Number

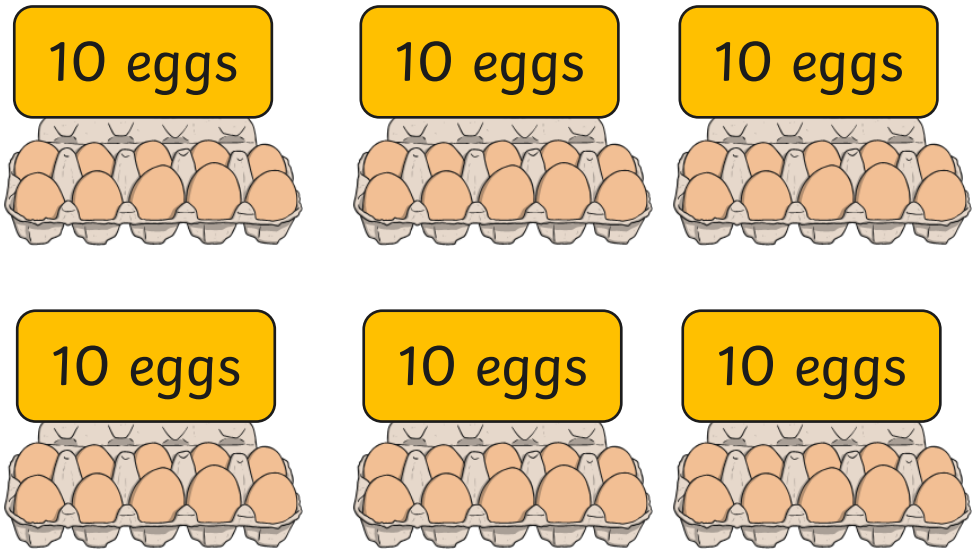
Whole Class

Can you count in tens to find the total number of eggs?

What do you notice?







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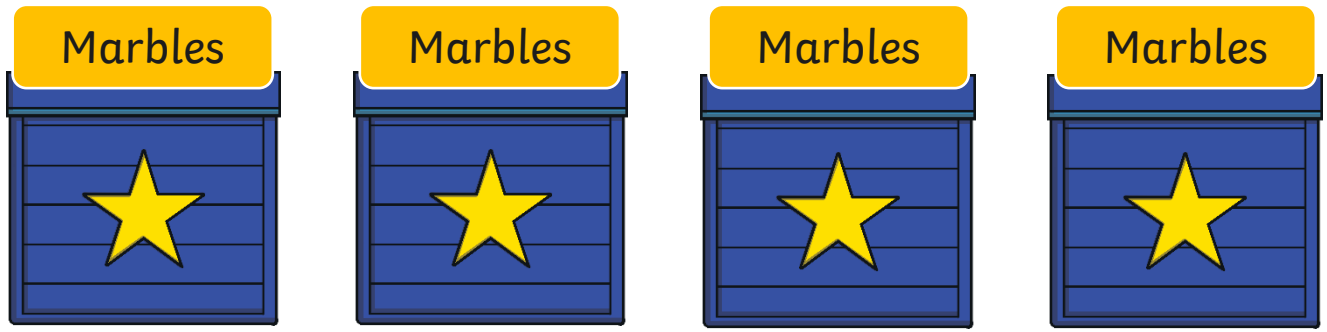
Counting in Tens from Any Number

Whole Class

Each box contains 10 marbles.
Jack says there are 90 marbles.

Is Jack correct? Prove it!



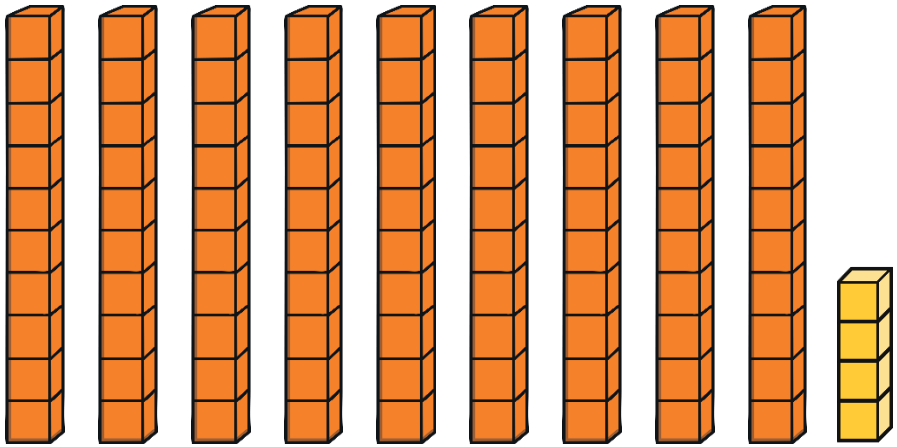
Jack is incorrect. There are 45 marbles. Jack counted the ones as tens.

Counting in Tens from Any Number

Whole Class

What happens if you count in steps of ten from a number other than 0?

Let's try counting in tens from 4.



Counting in Tens from Any Number

Let's count in tens from 4 and watch what happens on the 100 square.

What do you notice?

The ones digit stays the same but the tens digit gets bigger.

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

Counting in Tens from Any Number

Whole Class

What do you think would happen if you counted in tens from 26?

Are these numbers multiples of 10?

How do you know?

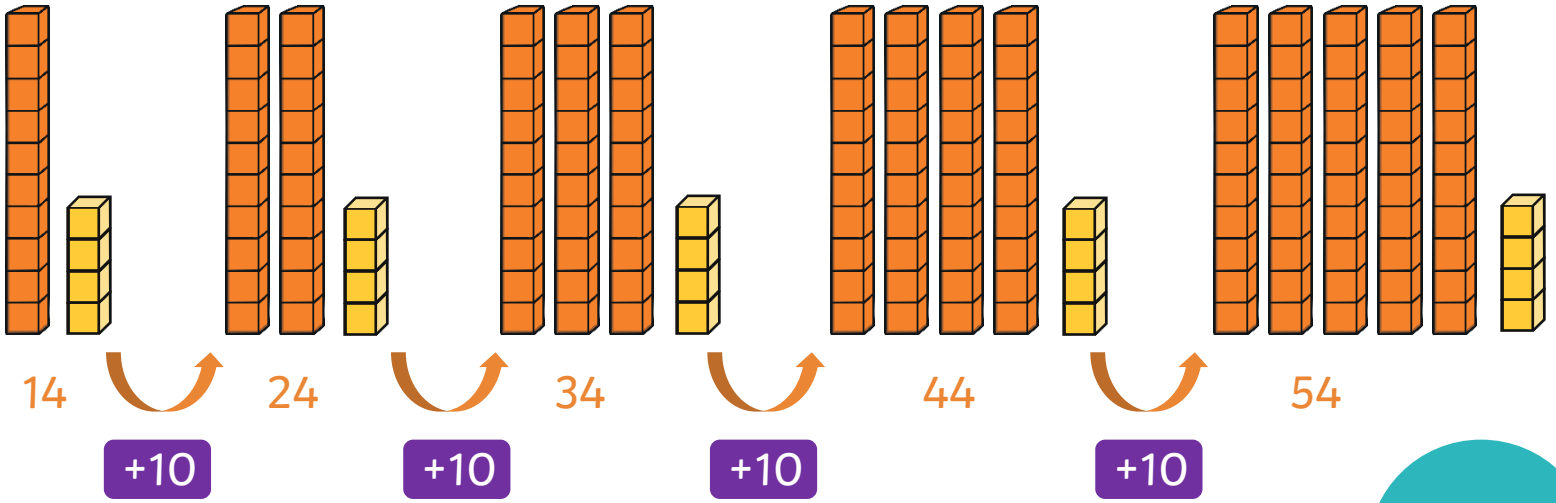
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Frog Leaps

They are not multiples of 10.
The sequence is counting forwards in leaps of 10.

14, 24, 34, 44, 54

Can you see a pattern?



What would the next number in the sequence be?
How do you know?

64

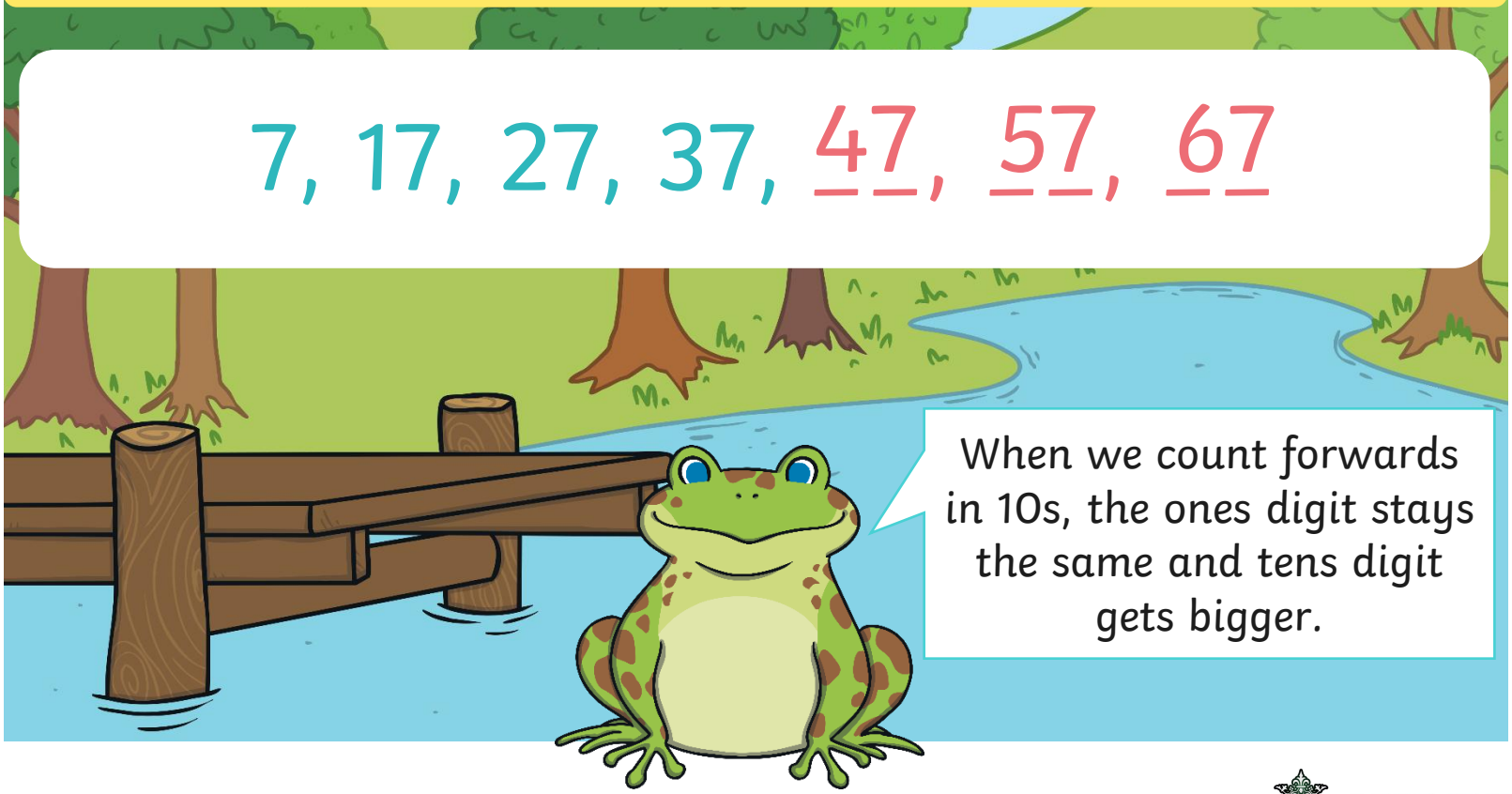
Frog Leaps

Whole Class

What comes next in the sequence?

How do you know?

7, 17, 27, 37, 47, 57, 67

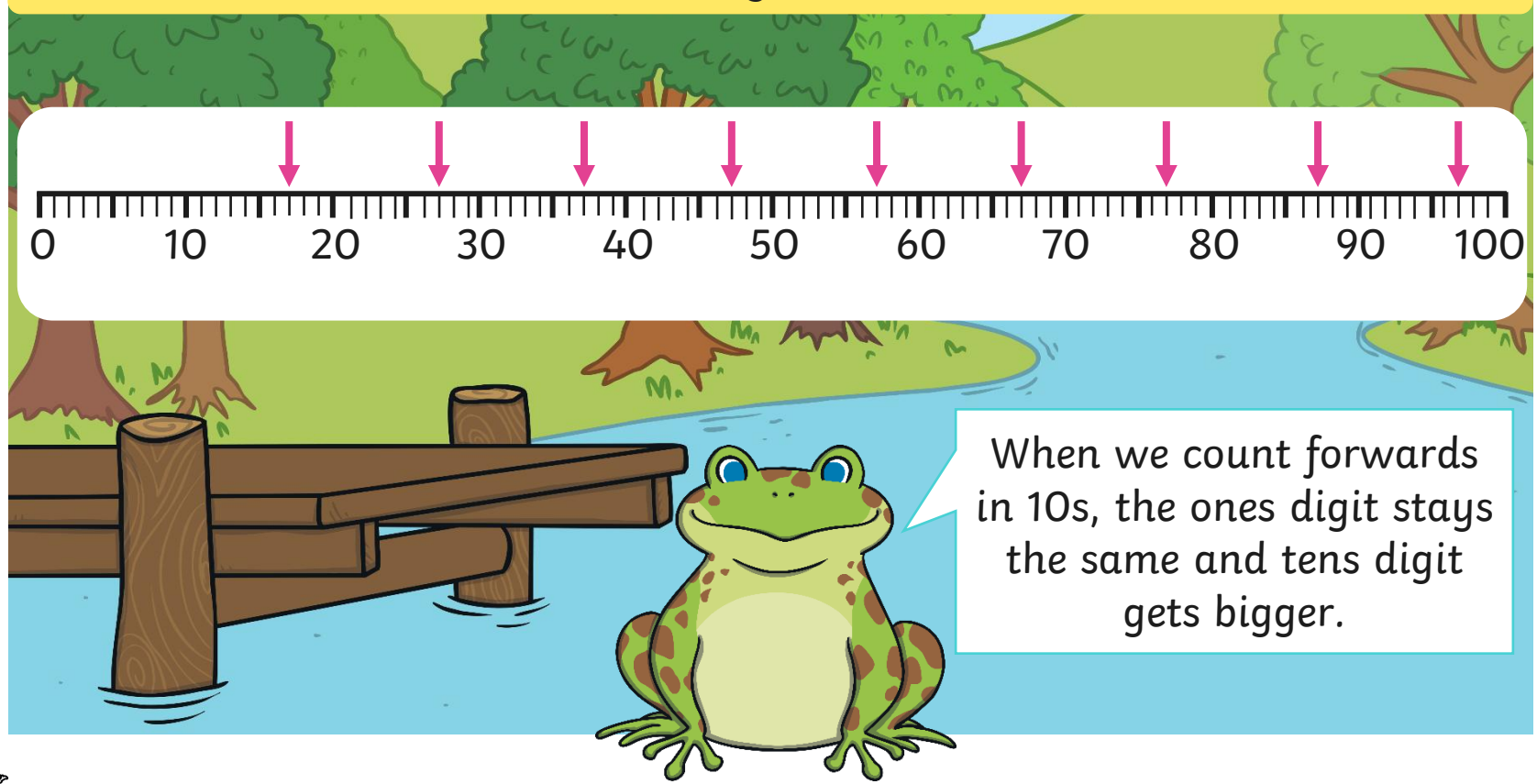


Frog Leaps

Whole Class

What numbers should be marked next on the number line?

How do you know?



Frog Leaps

10 pence is being added on each time.

How much money would be in the last box?

How much money would there be next in the sequence?
How do you know?

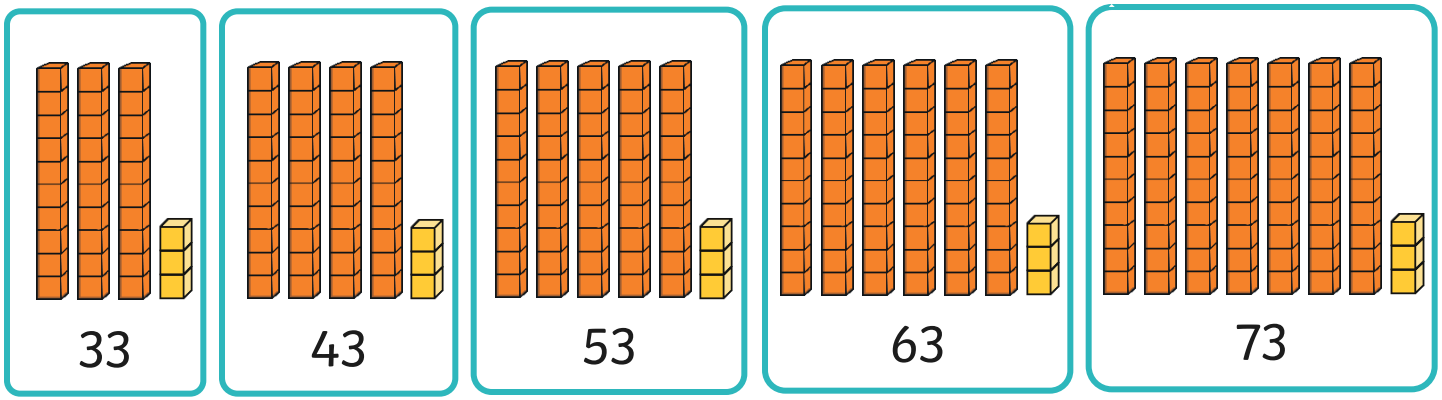
76p

Frog Leaps

We can count in steps of 10 from any number.

When counting forwards in steps of 10, we count on 10 more at a time.

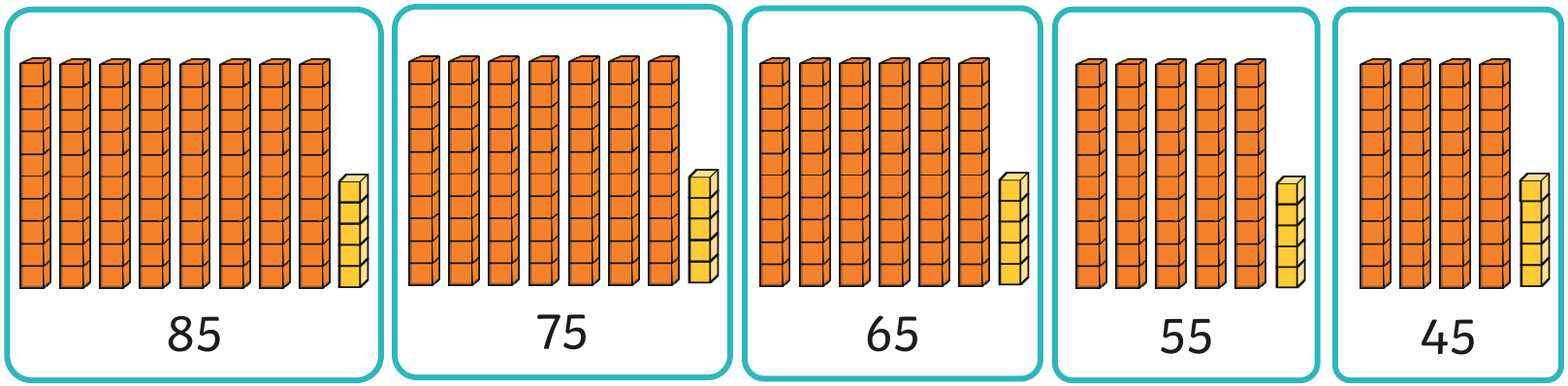
The number gets bigger by 10 each time. The ones digit **always** stays the same.



Do you think the ones digit will stay the same when counting backwards in steps of 10? Discuss with a partner and prove it.

Frog Leaps

We can also count backwards in steps of 10 from any number.



The number gets smaller by 10 each time.
The ones digit **always** stays the same.

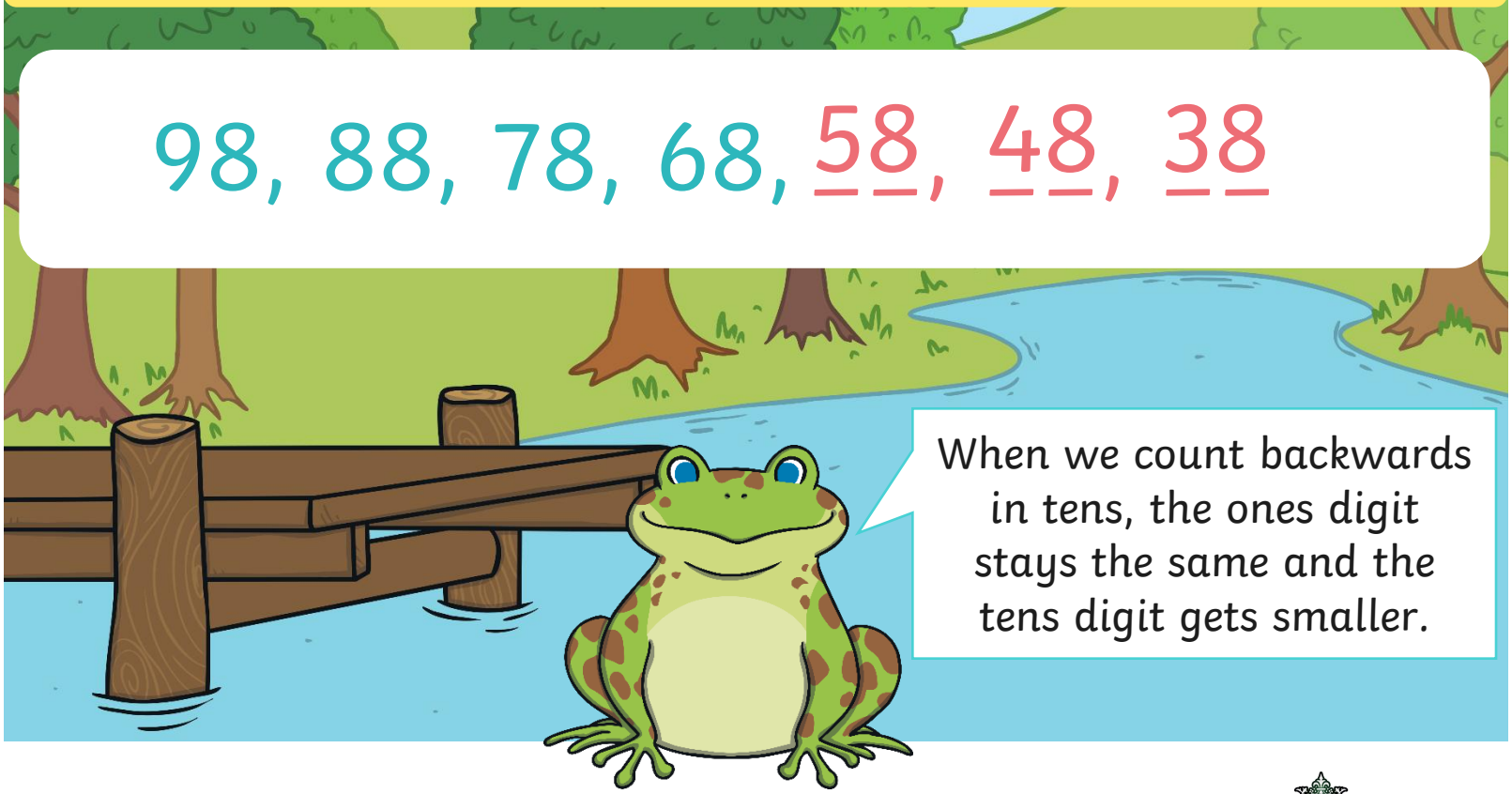
Frog Leaps

Whole Class

What comes next in the sequence?

How do you know?

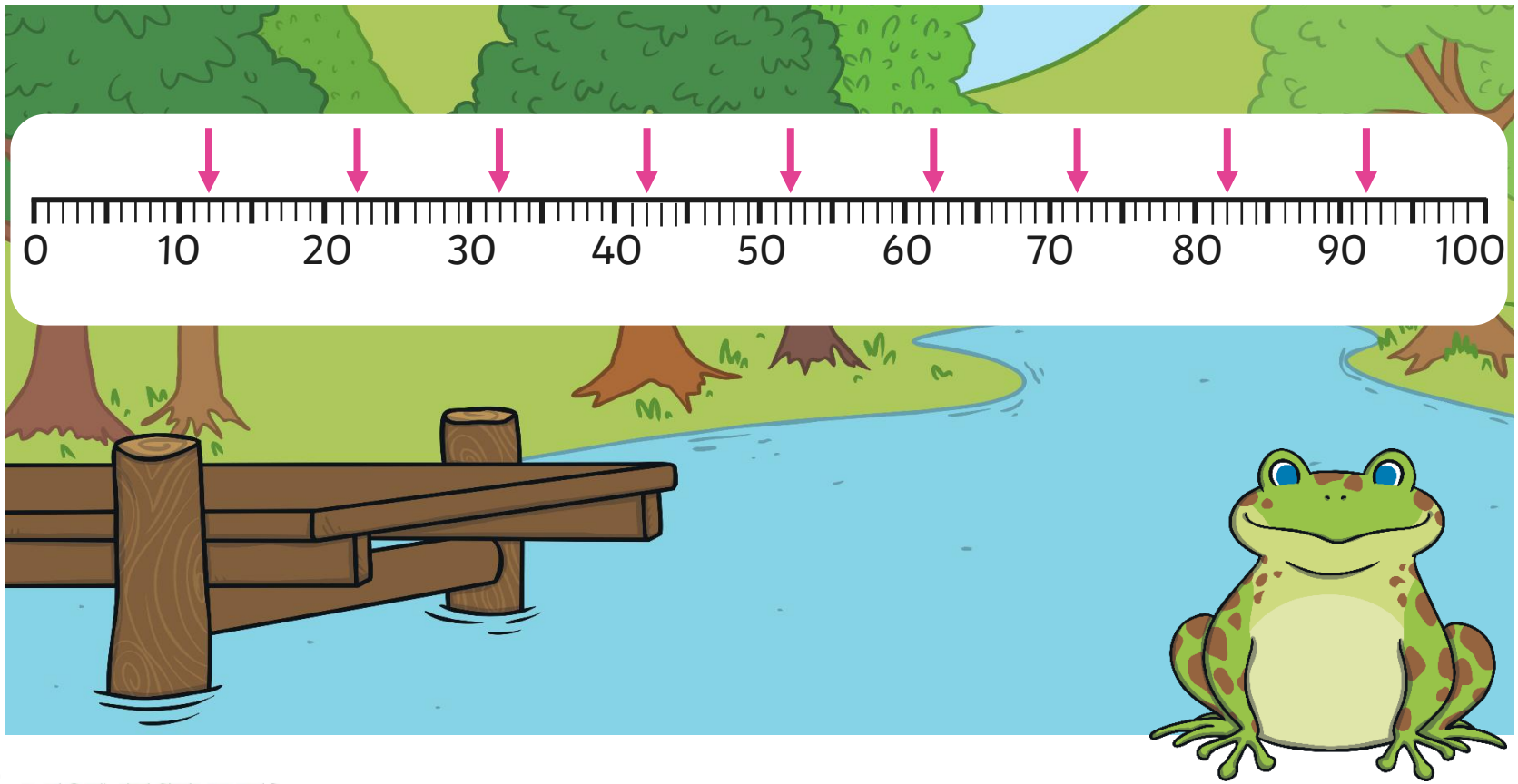
98, 88, 78, 68, 58, 48, 38



Frog Leaps

Whole Class

What numbers should be marked next on the number line?



Frog Leaps

Whole Class

What comes next in the sequence?

What do you notice about the tens and hundreds digits?

69, 79, 89, 99, 109, 119, 129

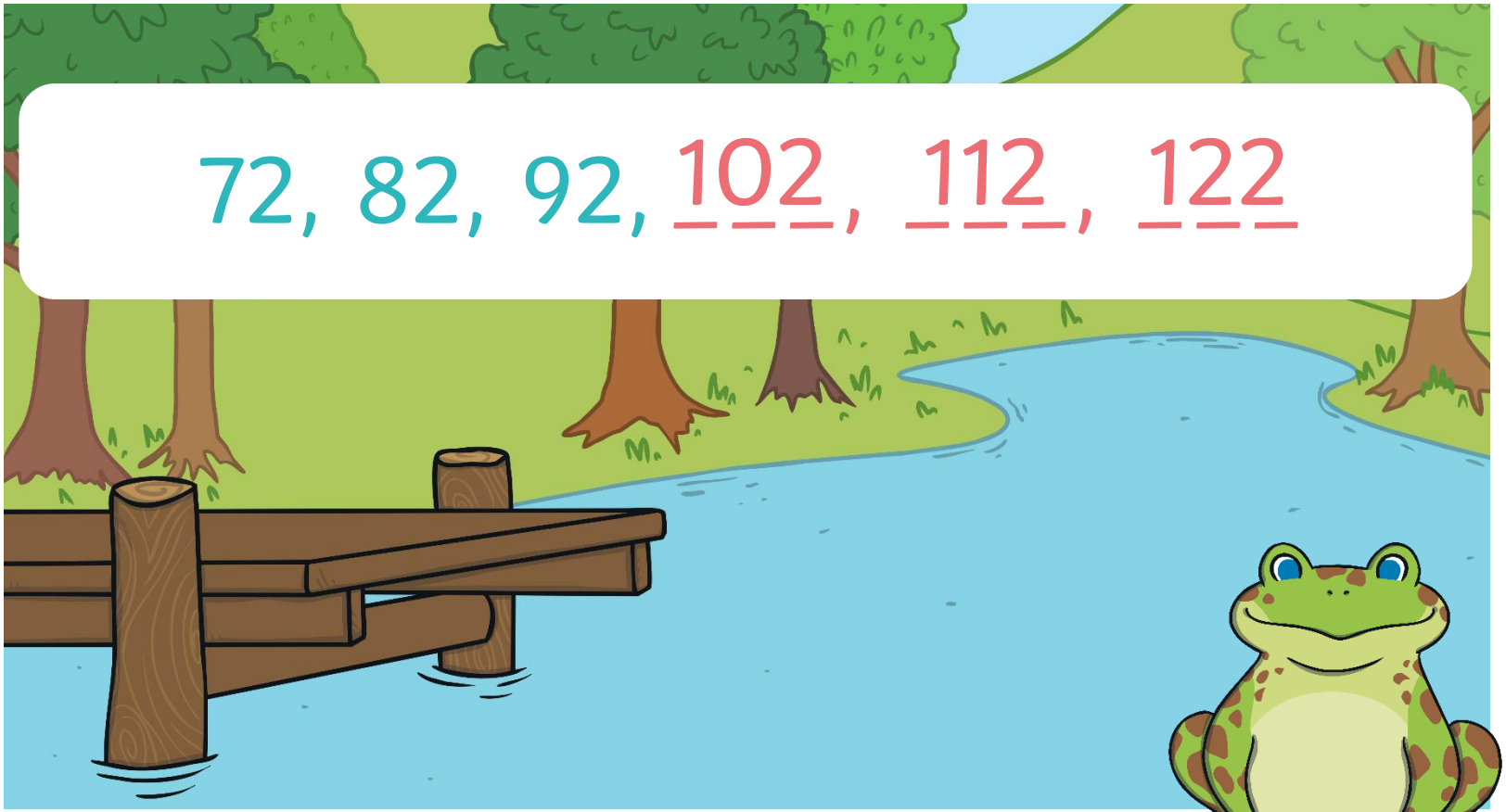
Once we get past 100, we need to include a hundreds digit. The ones digit will still stay the same. The tens digit keeps getting bigger.

Frog Leaps

Whole Class

What comes next in the sequence?

72, 82, 92, 102, 112, 122



Is Frankie Correct?

Is Frankie correct? Prove it!

Use equipment to help you explain your ideas.

When counting in steps of 10, the hundreds digit always stays the same.

Frankie is incorrect. Look what happens in the sequence:

179 189 199 209 219

Is Frankie Correct?

Is Frankie correct? Prove it!

Use equipment to help you explain your ideas.

Only the tens digit will change when counting forwards and backwards in steps of 10.

Frankie is incorrect. Look what happens in the sequence:

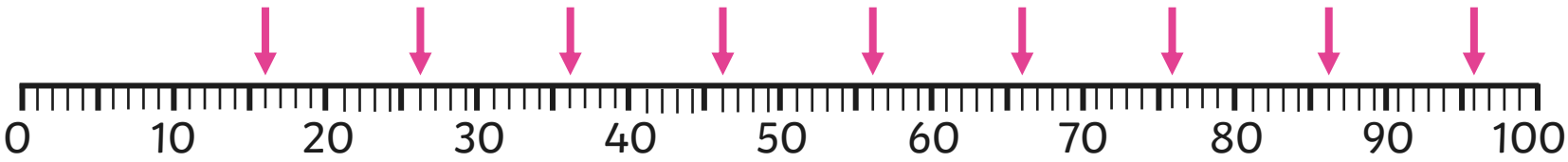
182, 192, 202, 212, 222

Is Frankie Correct?

Is Frankie correct? Prove it!

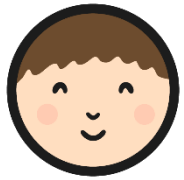
Use equipment to help you explain your ideas.

I can only count in tens from the number 10 on this number line.

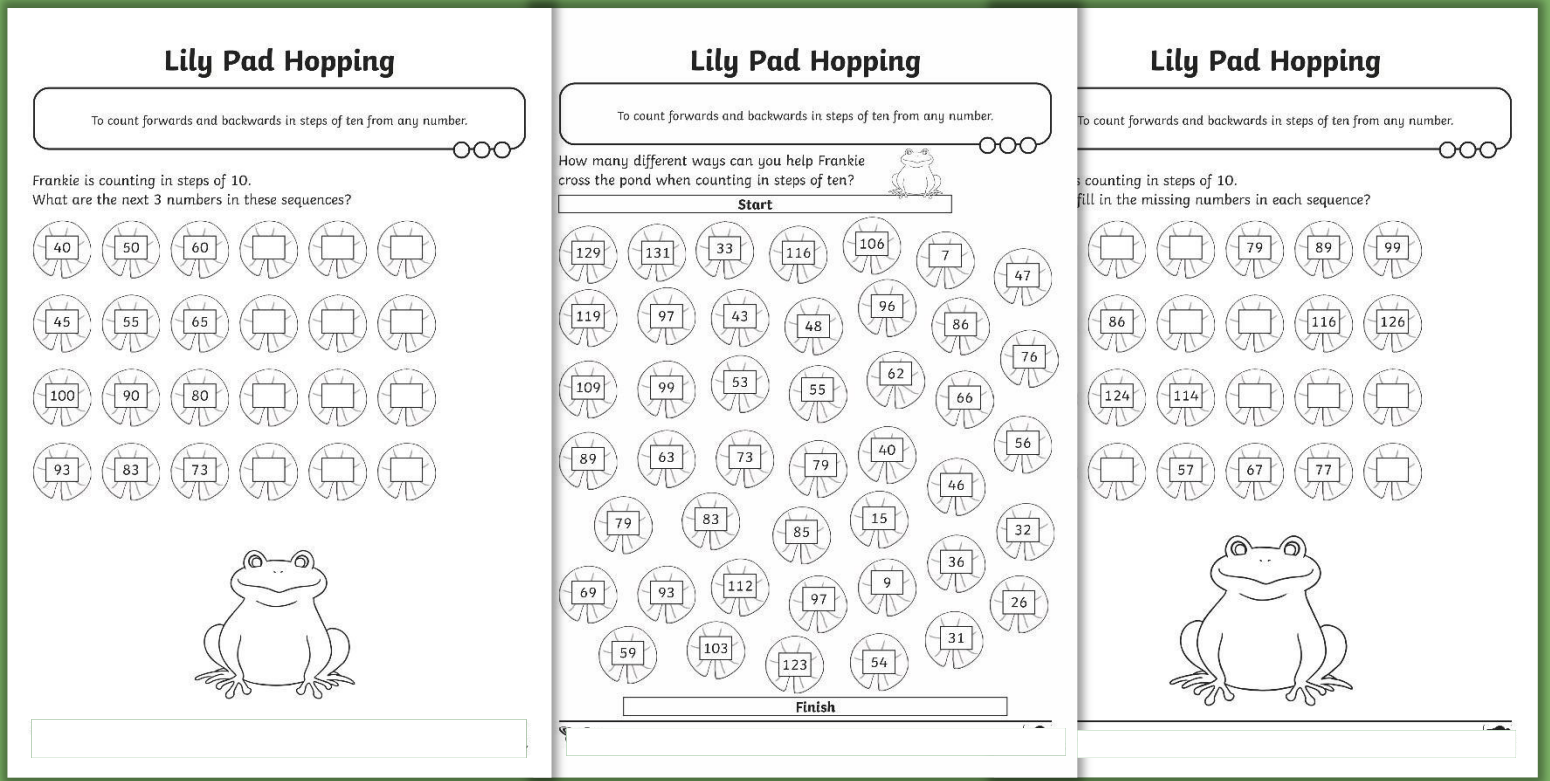


Frankie is incorrect. You can count in tens from any number on this number line. For example, you could count from 16.

Lily Pad Hopping



Can you count in steps of 10 from any number?



Lily Pad Hopping

To count forwards and backwards in steps of ten from any number.

Frankie is counting in steps of 10.
What are the next 3 numbers in these sequences?

40	50	60			
45	55	65			
100	90	80			
93	83	73			

Lily Pad Hopping

To count forwards and backwards in steps of ten from any number.

How many different ways can you help Frankie cross the pond when counting in steps of ten?

Start

129	131	33	116	106	7	47	
119	97	43	48	96	86	76	
109	99	53	55	62	66	56	
89	63	73	79	40	46	32	
79	83	85	15	36	26		
69	93	112	97	9	31		
59	103	123	54				

Finish

Lily Pad Hopping

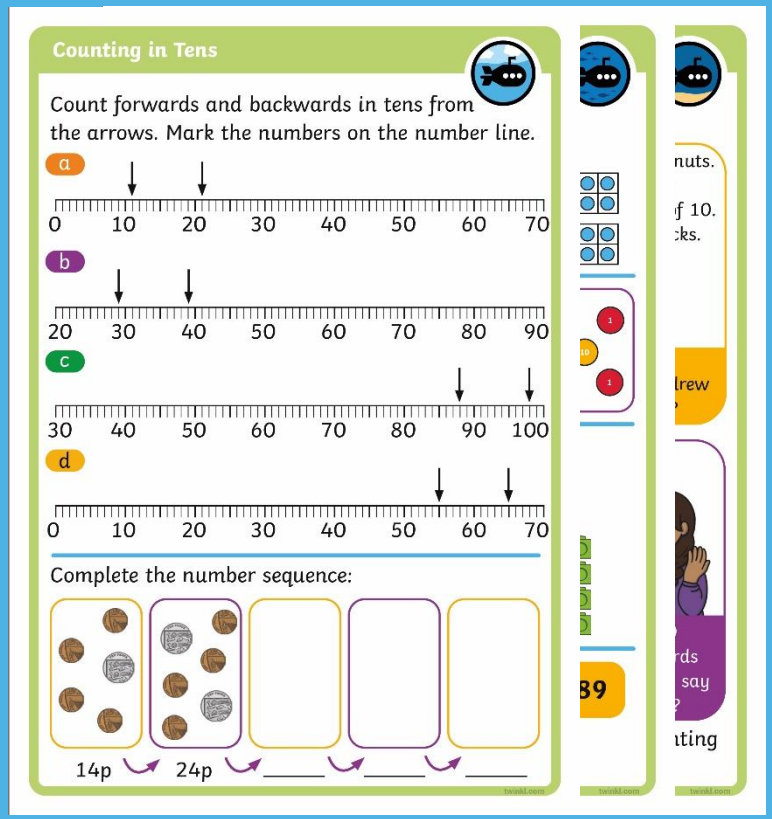
To count forwards and backwards in steps of ten from any number.

counting in steps of 10.
fill in the missing numbers in each sequence?

		79	89	99
86			116	126
124	114			
	57	67	77	

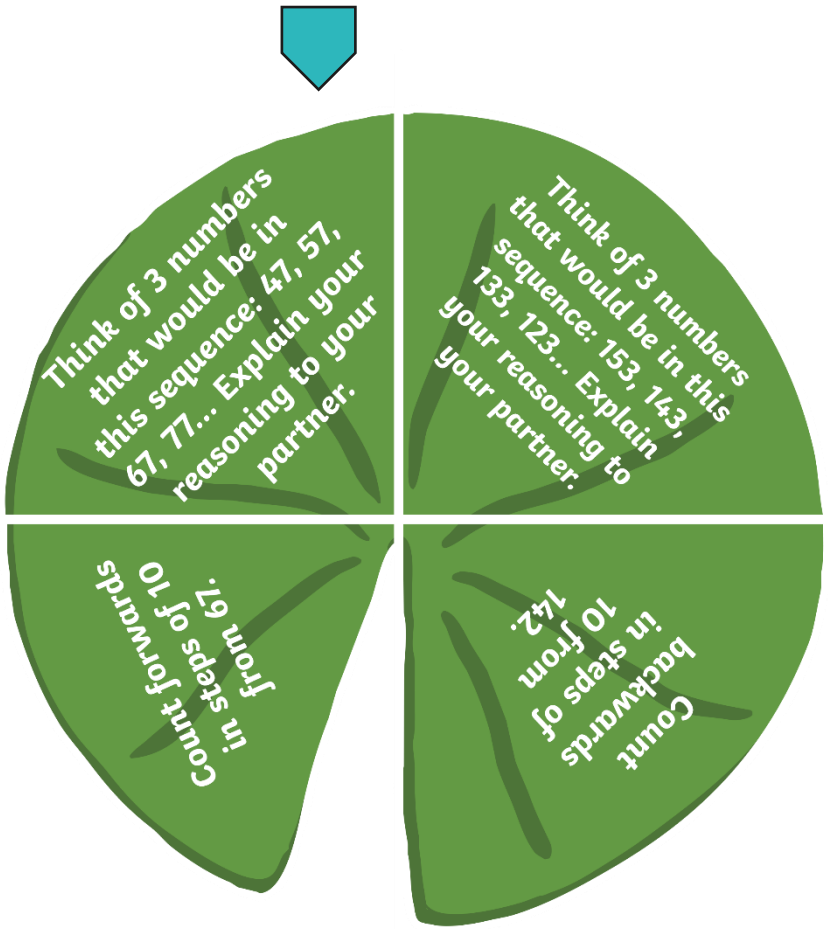
Diving into Mastery

Dive in by completing your own activity!



Lily Pad Spinner

Work in pairs to complete the challenge the pointer lands on.



Click here to spin!

Aim

- To count forwards and backwards in steps of ten from any number.

Success Criteria

- I can use place value to spot a pattern.
- I can work out the next numbers in a sequence.
- I can explain what happens to the ones digit and the tens digit.
- I can use the pattern to help me count on and back from any number.