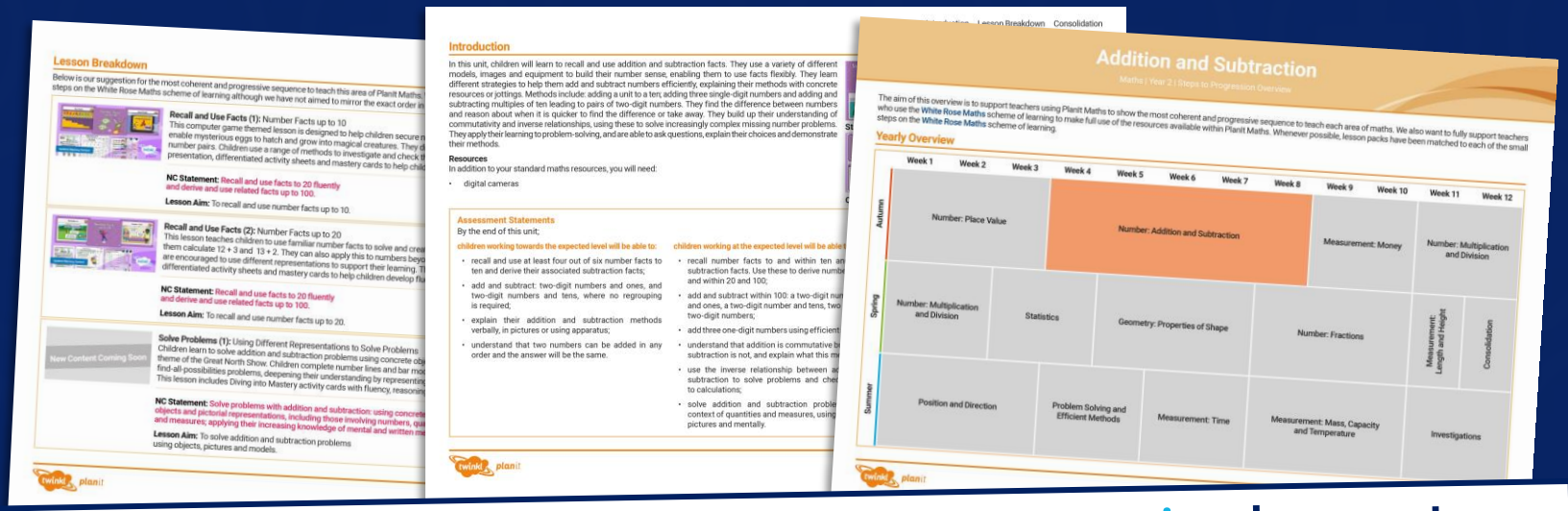
Maths

Addition and Subtraction

Need a coherently planned sequence of lessons to complement this resource?



See our Addition and Subtraction Steps to Progression document.

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Addition is Commutative

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Quality Standard
Approved

Aim

- To be able to explain why addition is commutative but subtraction is not.

Success Criteria

- I can use equipment to explain why addition is commutative.
- I can use equipment to explain why subtraction is not commutative.
- I can use commutativity to help me solve number problems.

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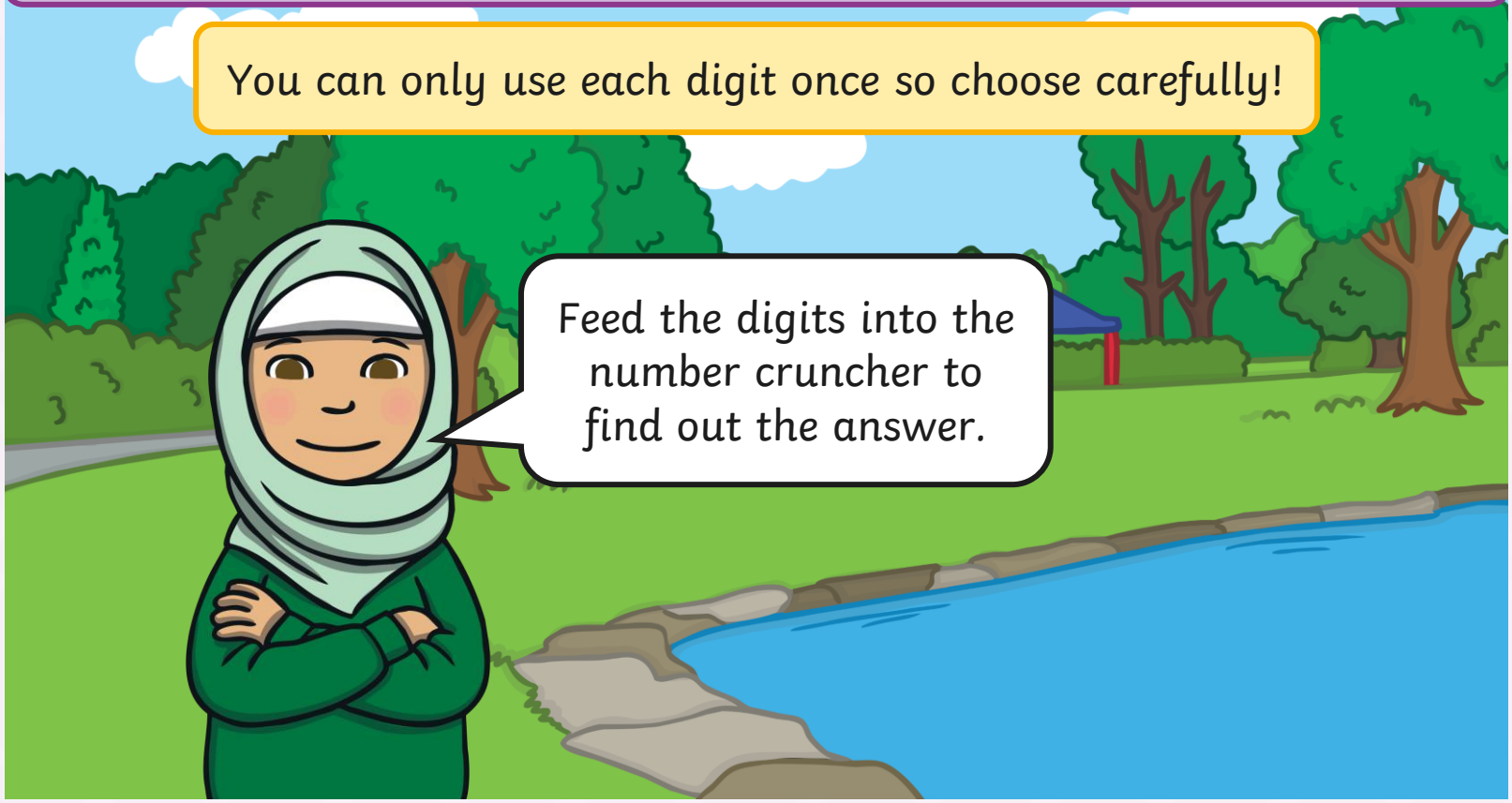
Remember It

Can you use the digits to solve the clues?



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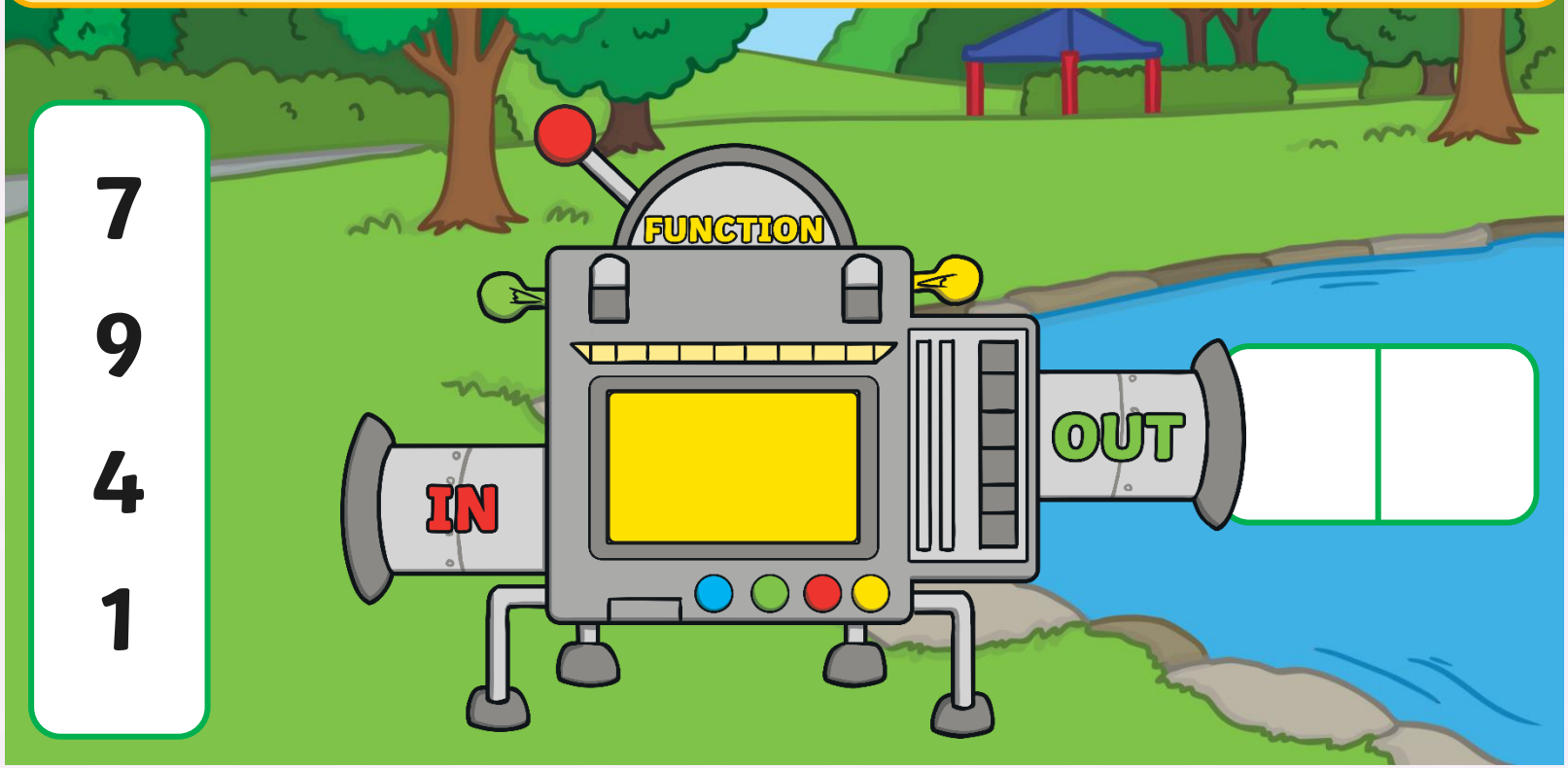
Remember It

Make the highest even 2-digit number.
Make the lowest odd 2-digit number.



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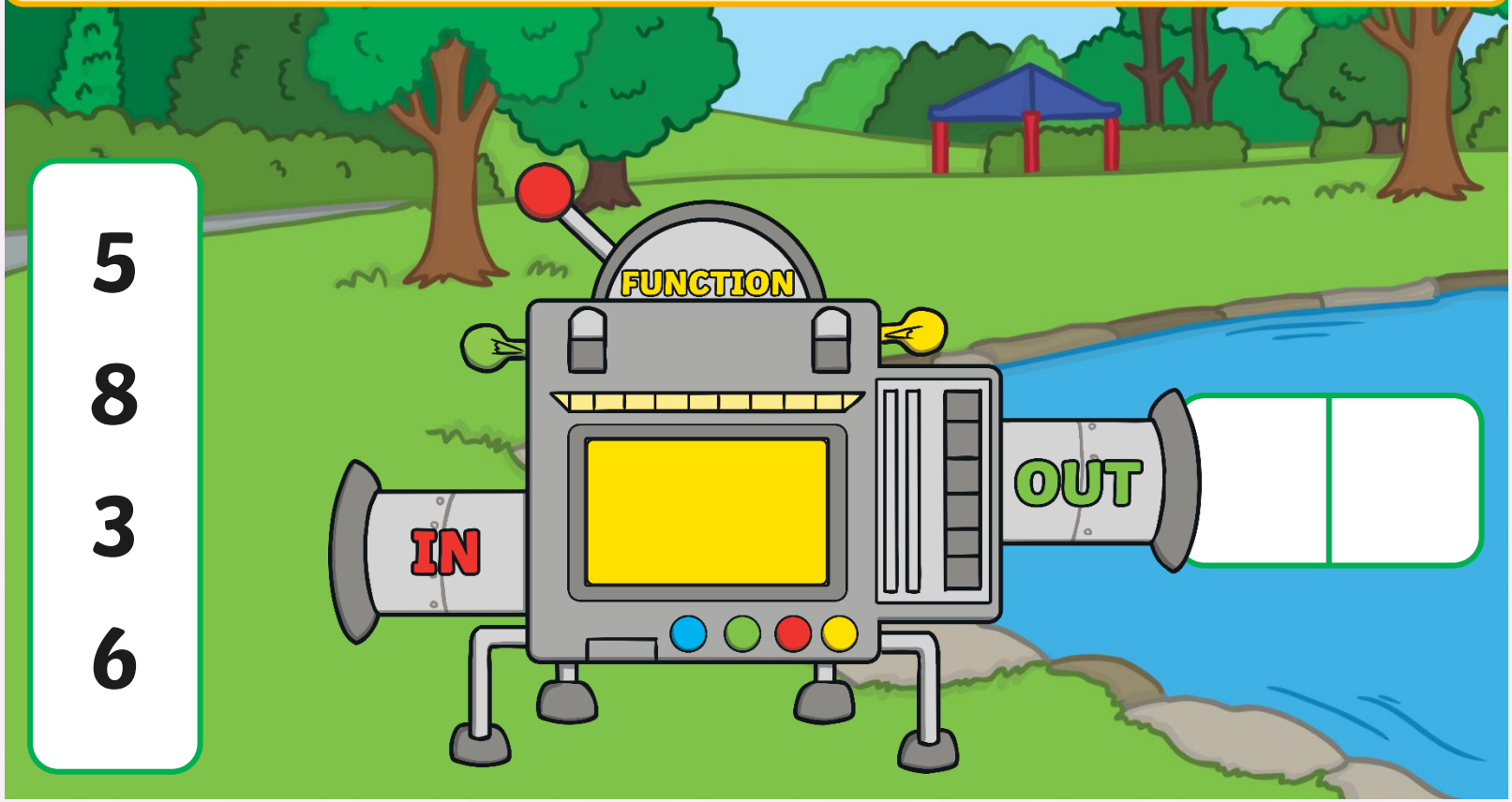
Remember It

Make two 2-digit numbers that are close together.



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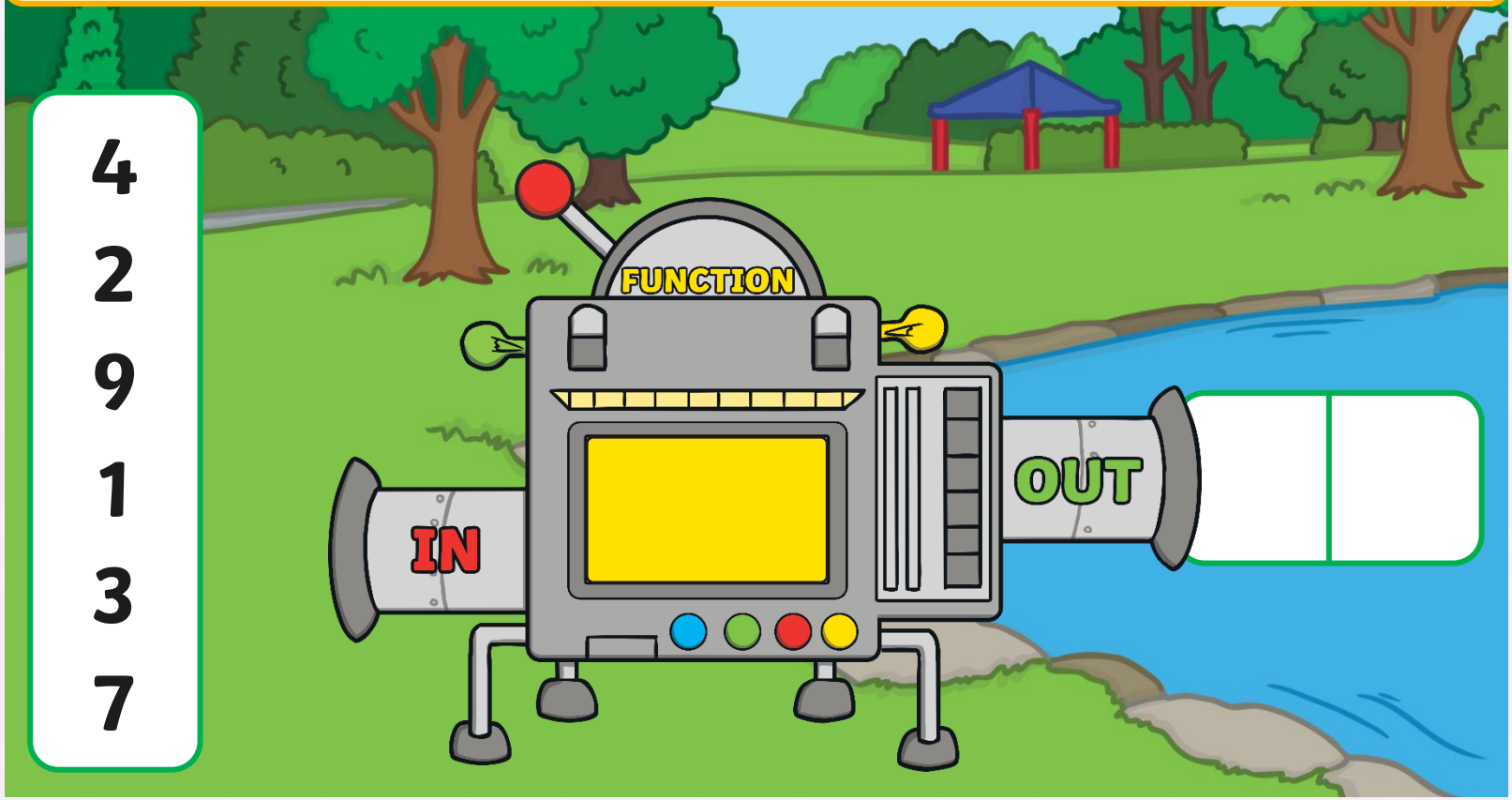
Remember It

Make two numbers and add them to make 20.



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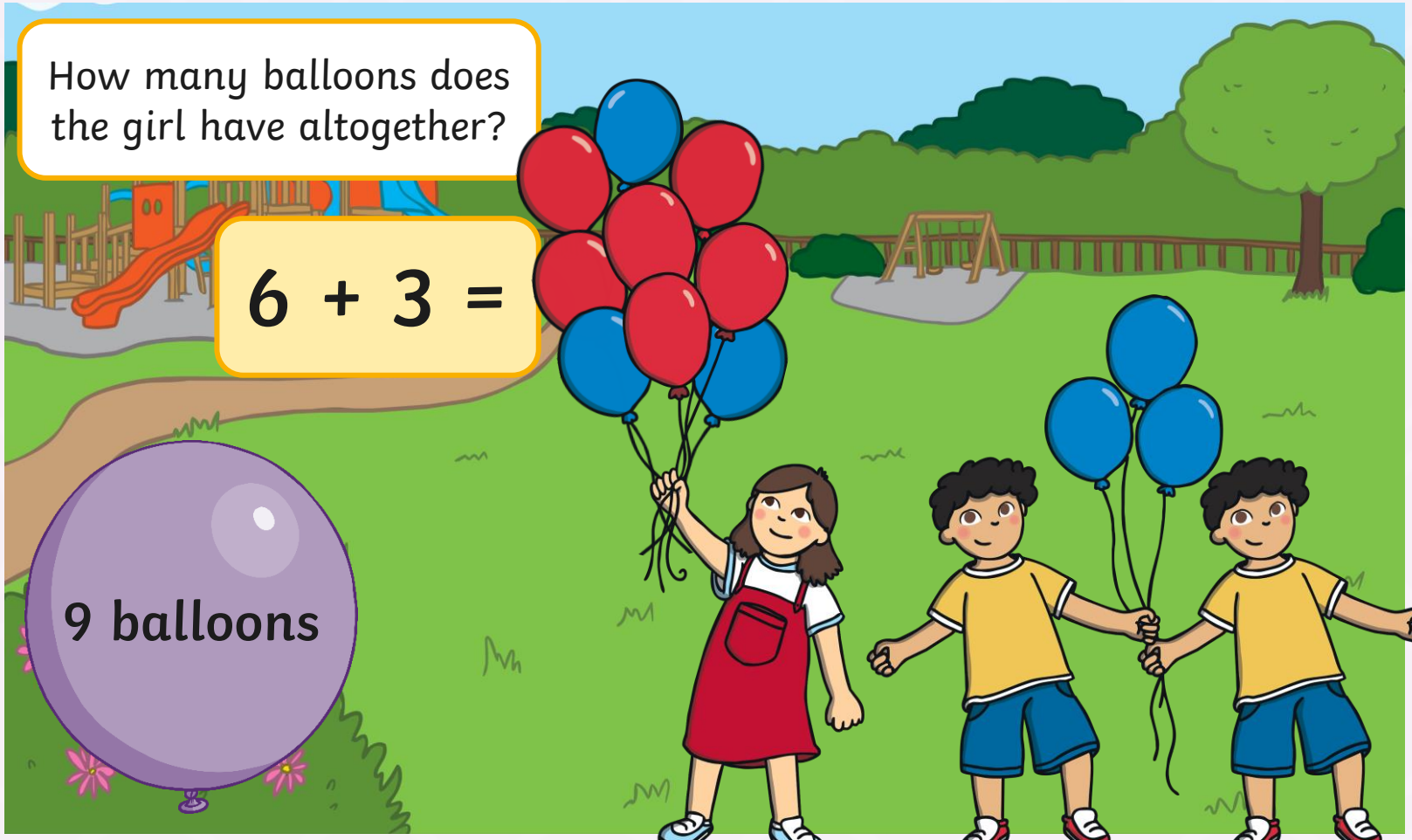
Balloons

Whole Class



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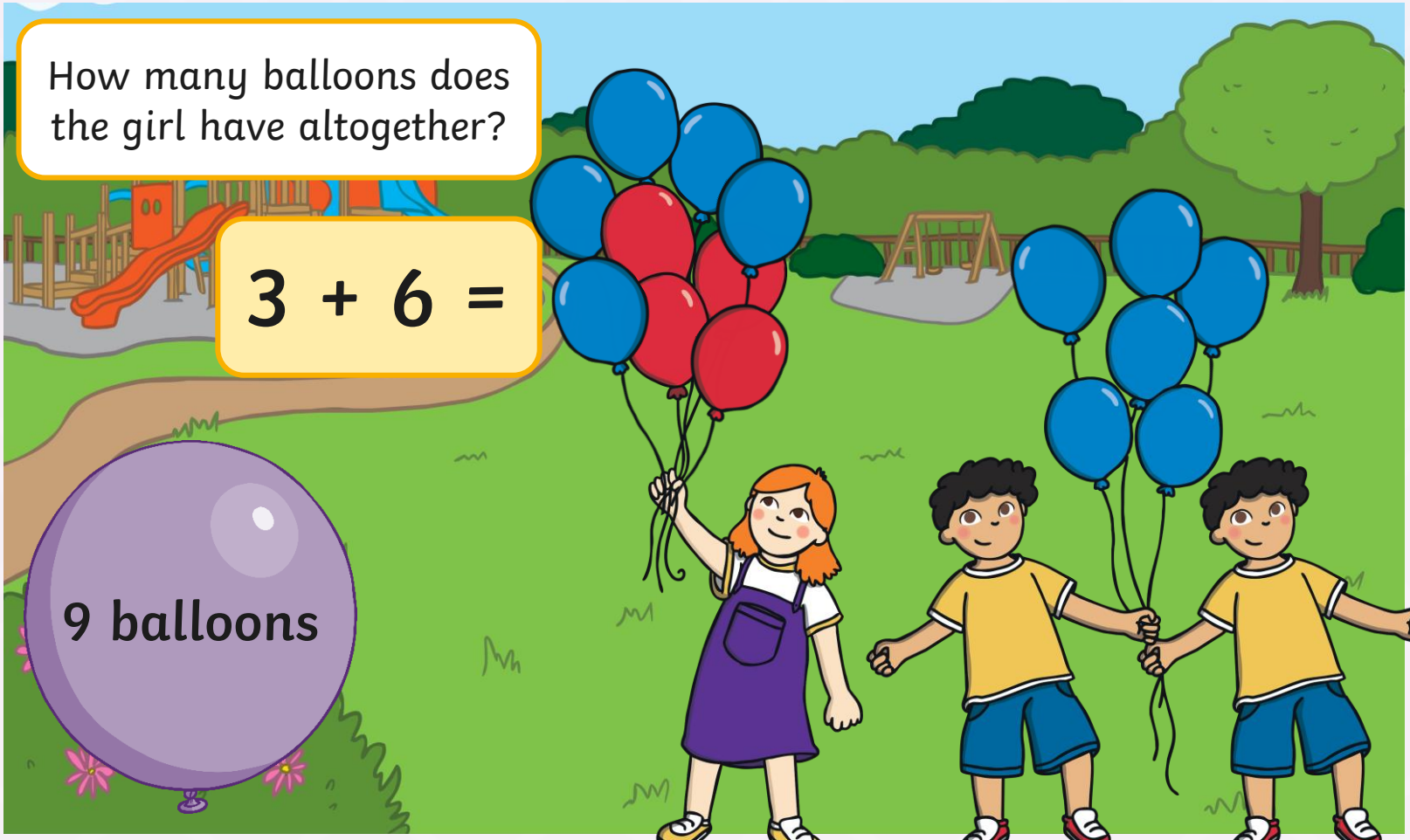
Balloons



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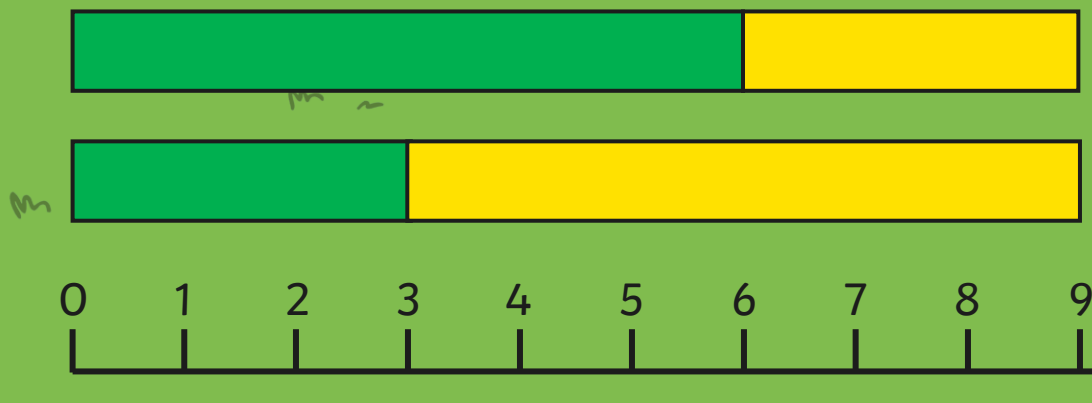
Balloons

Whole Class

Which girl had more balloons altogether?
Let's compare them.



Do they have the same amount? How do you know?

They have the same amount.
It doesn't matter which way round you add the numbers, they still make the same total amount.

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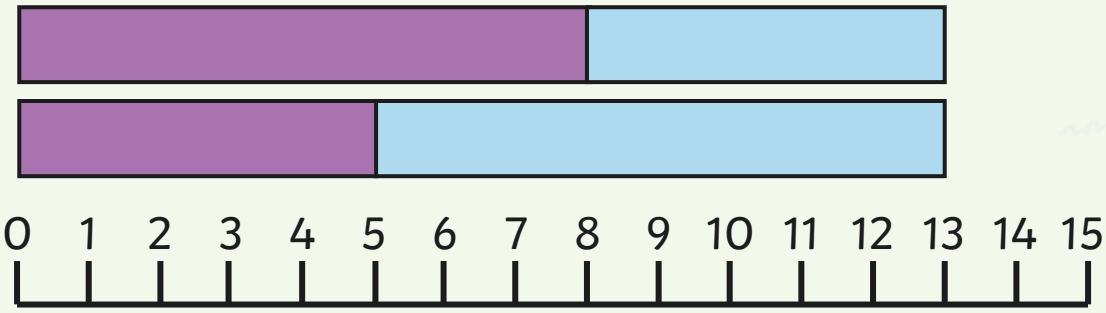
Football Cards

I had 8 football cards and then I bought 5 more.

I had 5 football cards and then I bought 8 more.

Do the children have the same amount? How do you know?



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Turn Around

Can two numbers be added in any order?

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Turn Around

Two numbers can be added in any order.

Addition is commutative. This means we can add the numbers any way round and we still get the same total.

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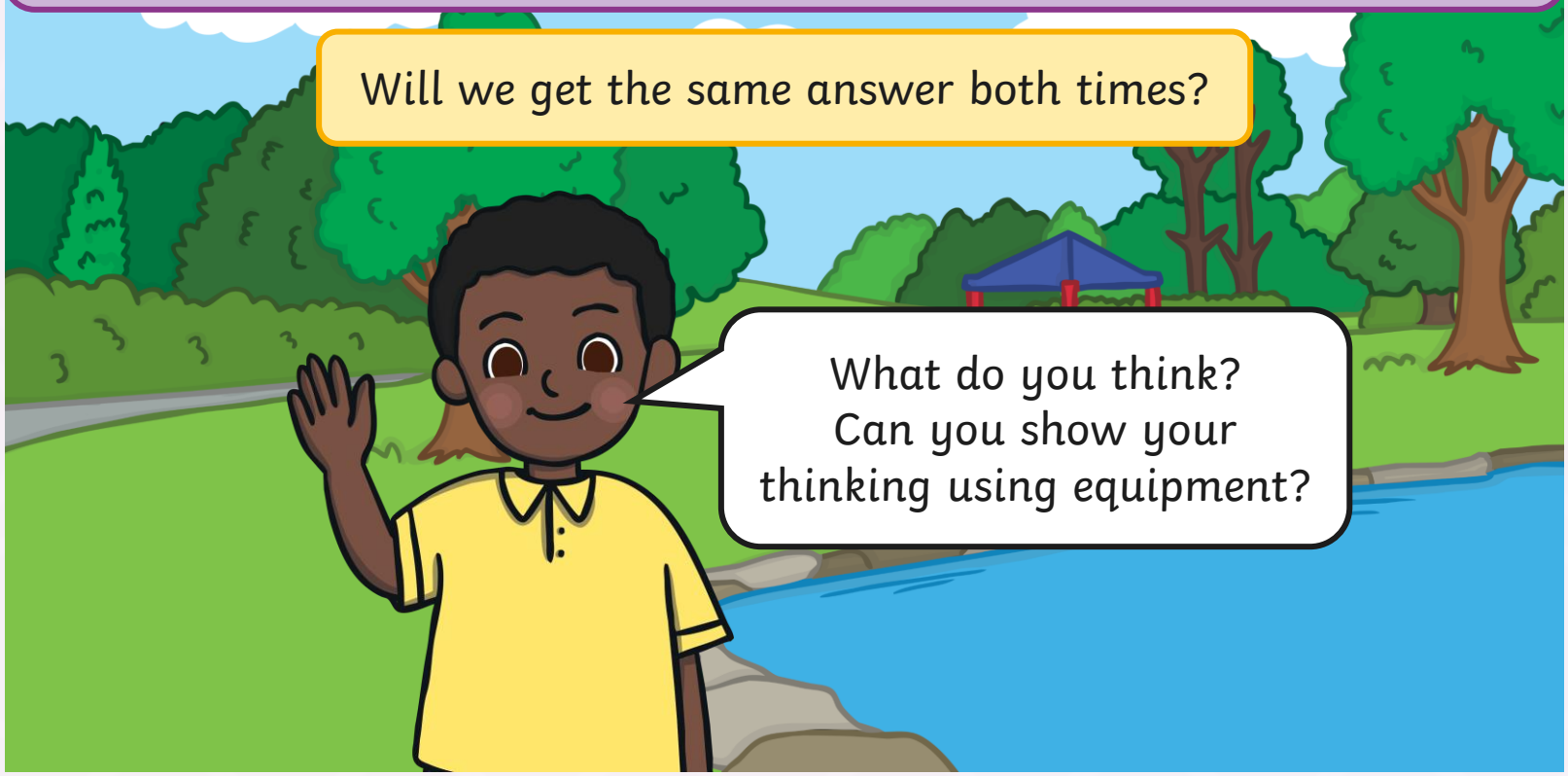
Lost Cards

Is subtraction commutative?
Can two numbers be subtracted in any order?



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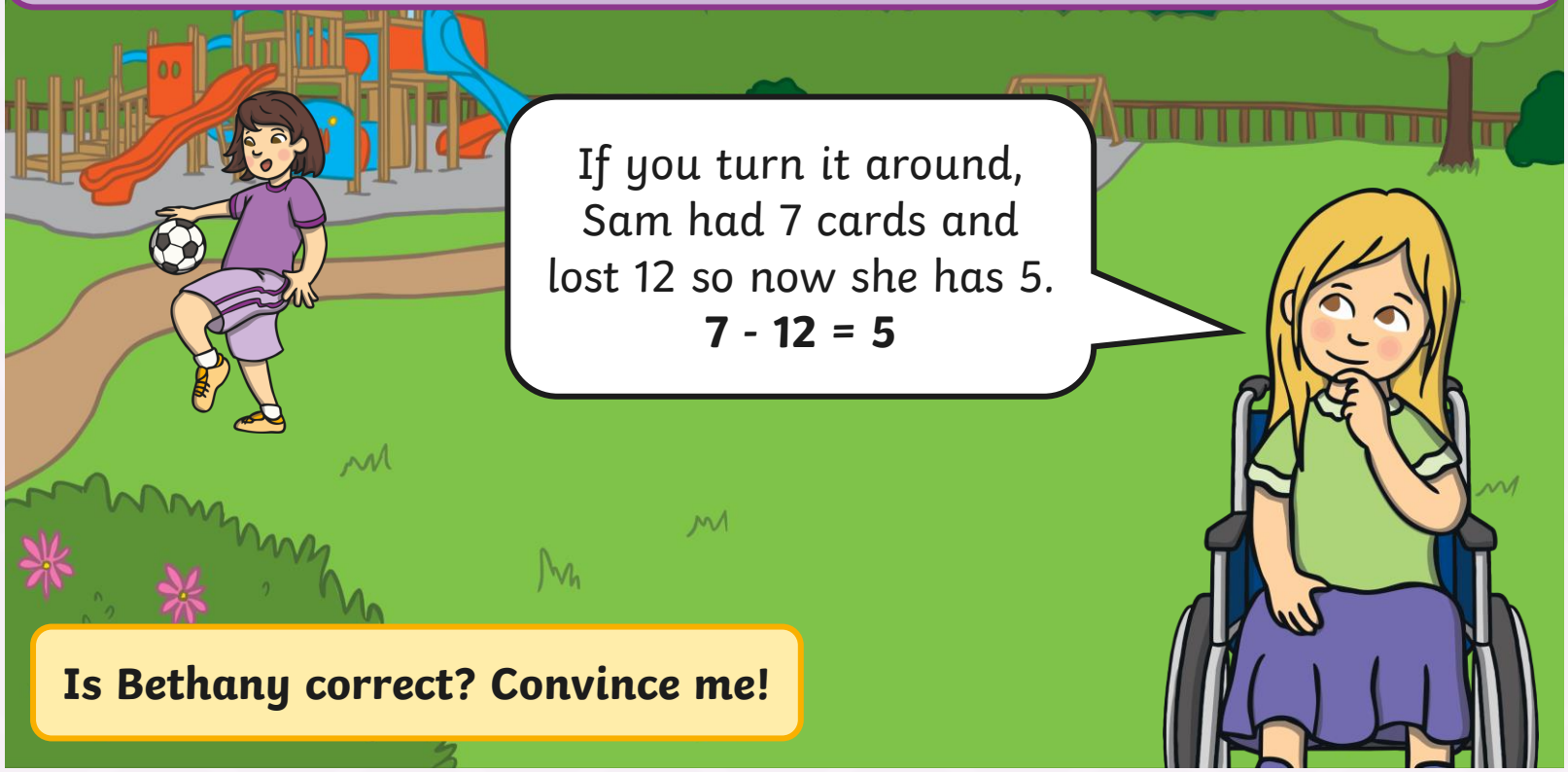
Lost Cards

Sam had 12 cards. She lost 7 so now she has 5.
12 – 7 = 5



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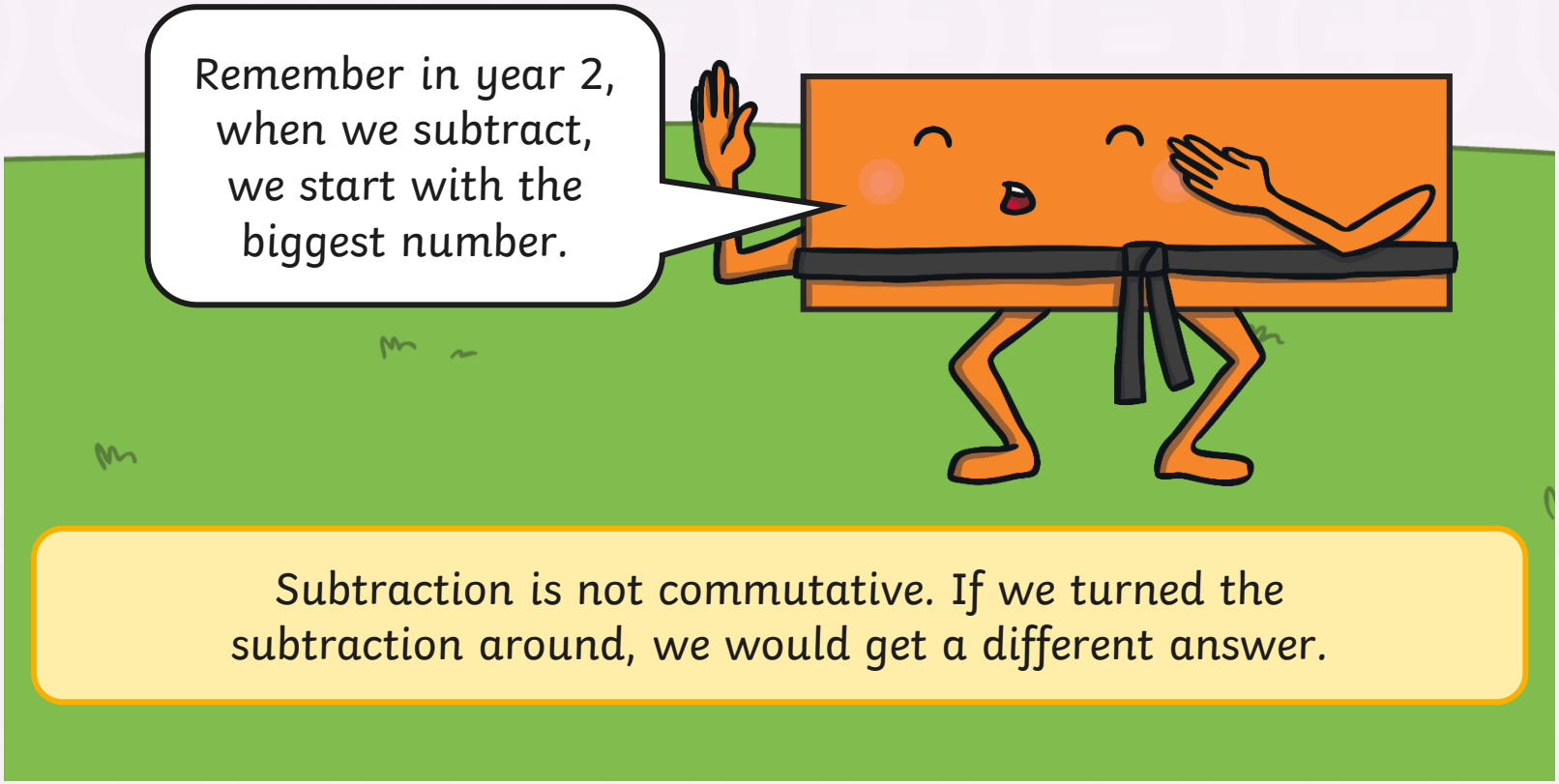
Lost Cards

Two numbers can not be subtracted in any order.



Subtraction is not commutative. If we turned the subtraction around, we would get a different answer.

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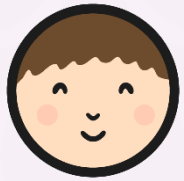
Commutativity



These number sentences have been turned around but some of them are now incorrect! Work out which are right and which are wrong.

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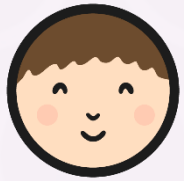
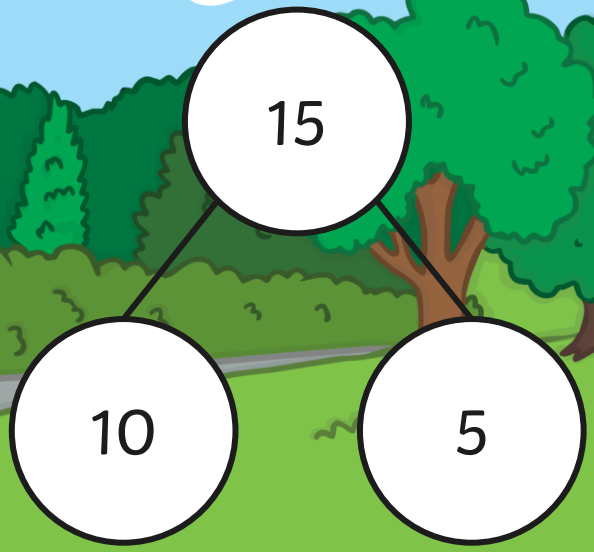
Commutativity



What calculations can you write using this part-whole model?
Can you write addition and subtraction calculations?



10 + 5 = 15
5 + 10 = 15
15 – 10 = 5
15 – 5 = 10

15 = 10 + 5
15 = 5 + 10
5 = 15 – 10
10 = 15 - 5

What's the same about these calculations? What's different?

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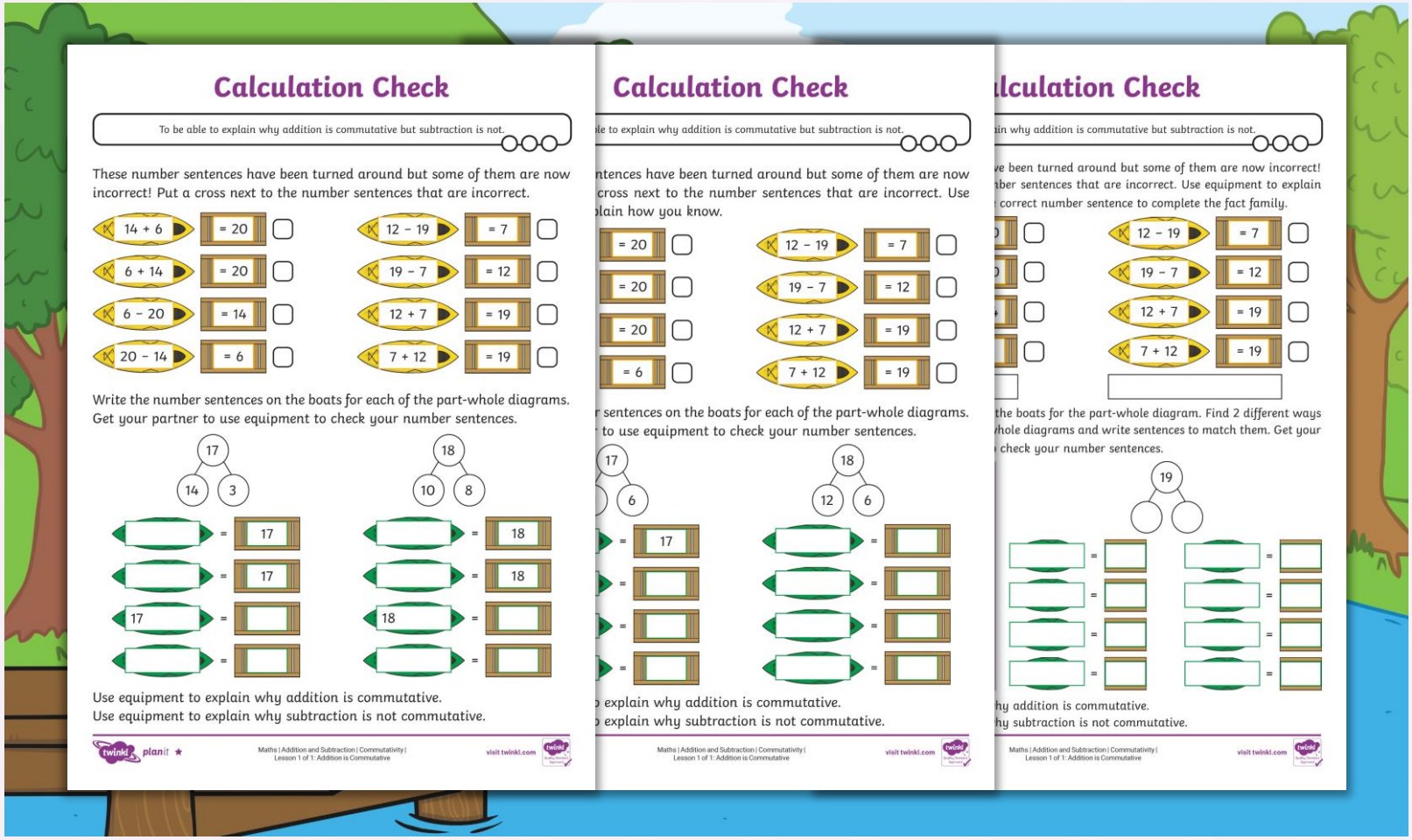
Calculation Check



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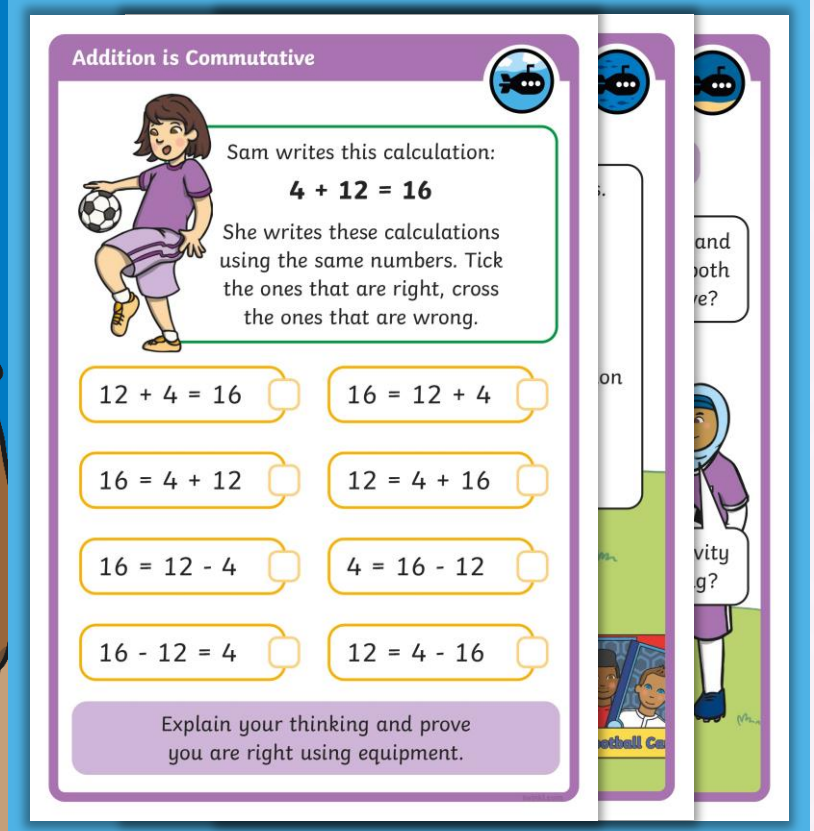
Diving into Mastery

Dive in by completing your own activity!



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Thoughts

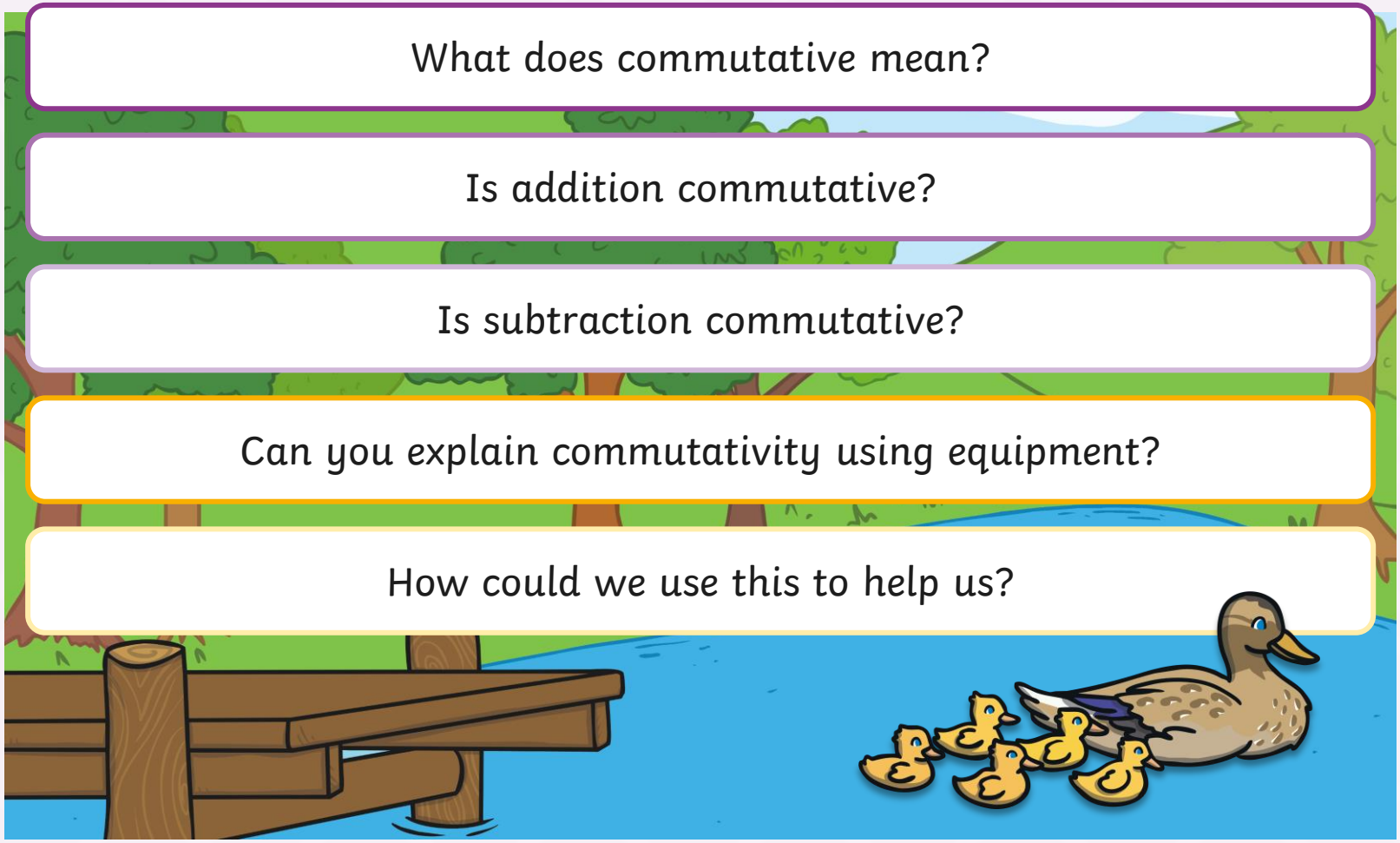
What does commutative mean?

Is addition commutative?

Is subtraction commutative?

Can you explain commutativity using equipment?

How could we use this to help us?



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