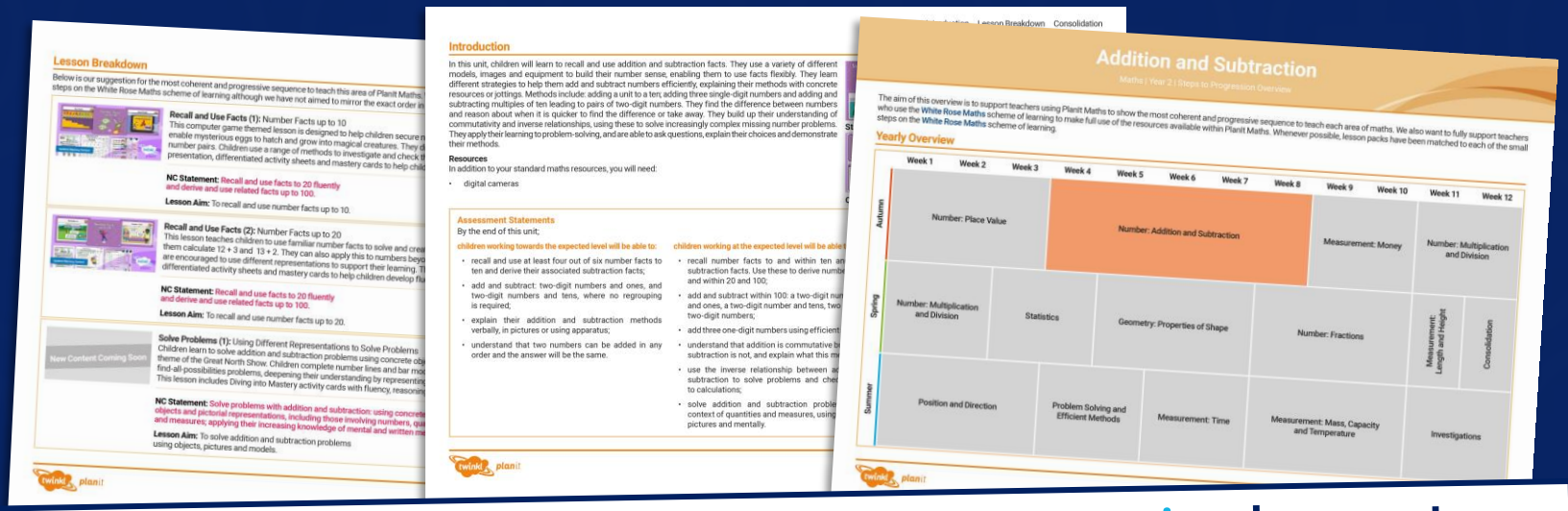
# Maths

## Addition and Subtraction

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




**See our Addition and Subtraction Steps to Progression document.**

Twinkl PlanIt is our award-winning scheme of work with over 4000 resources.

# Using Different Representations to Solve Problems

# Aim

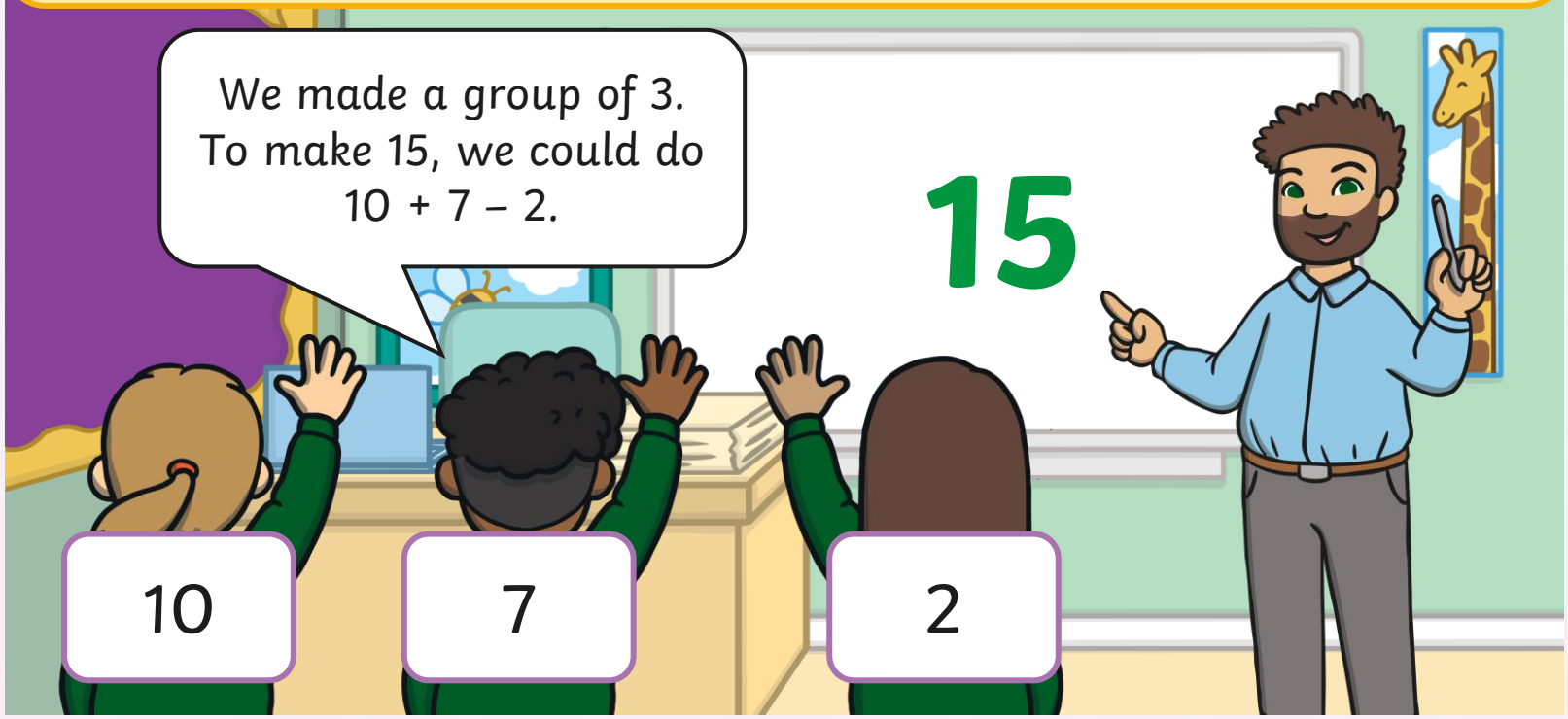
- To solve addition and subtraction problems using equipment and models.

# Success Criteria

- I can use equipment to solve a problem.
- I can use a model to solve a problem.
- I can choose a representation to help me solve a problem.

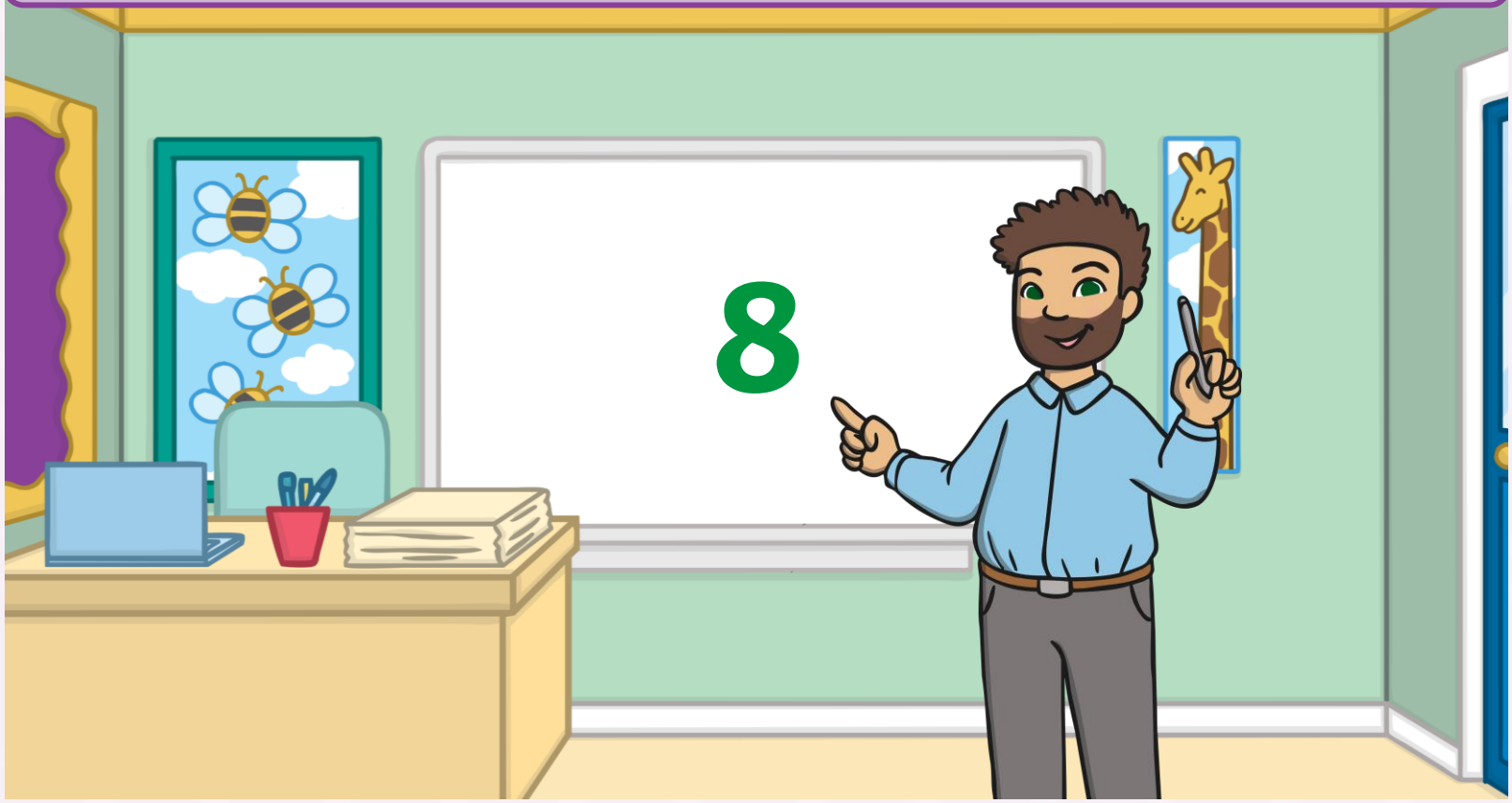
# Remember It

Each of you will be given a number card. You will then be given a target number to make. Form a group of 3 or 4 children, where you can add and/or subtract your numbers to make the target number. Good luck!



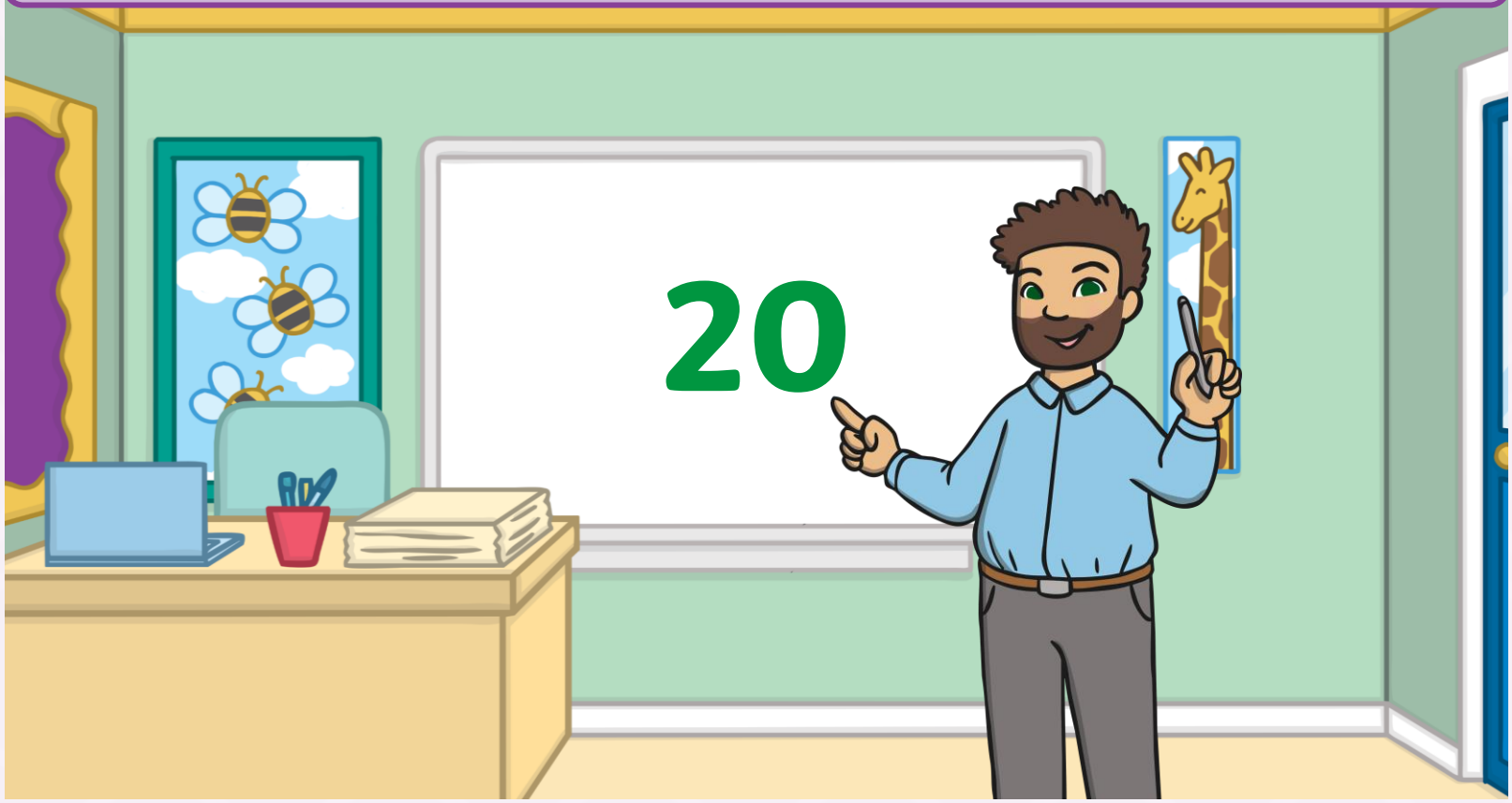
# Remember It

Find a way of making...



# Remember It

Find a way of making...



# Remember It

Find a way of making...

# Remember It

Find a way of making...

# A Day Out

Whole Class

Ben and Cho are very excited.
They have won a day out to the Great North Show.

There's so much to do that they can't decide what to start with!

# A Day Out

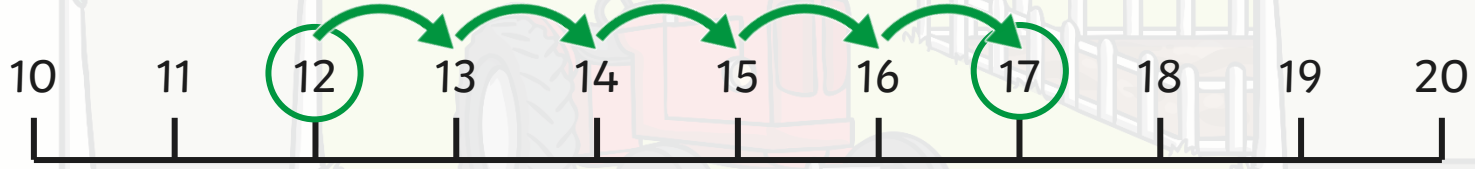
Whole Class

How much does Ben have to spend now?

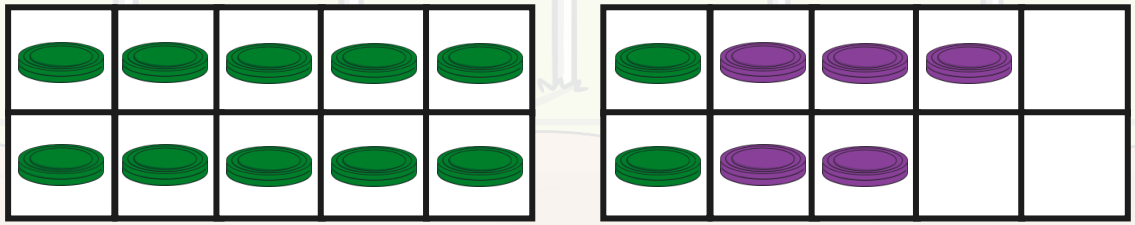
# A Day Out


Ben has been given some more money so we're adding.
**£12 + £5 = ?**

We could use equipment.



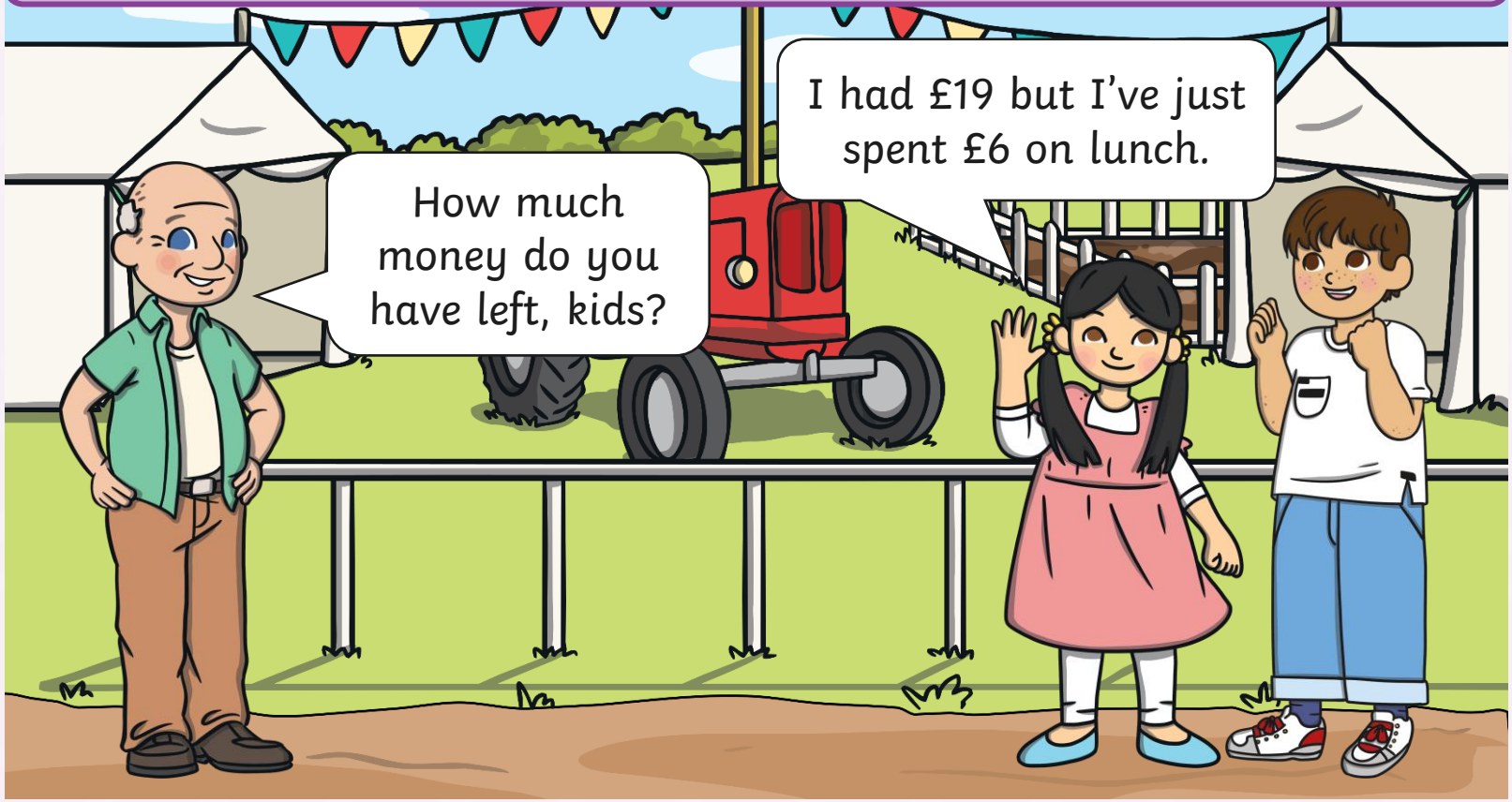

| £17 | |
|---|---|
| £12 | £5 |



# A Day Out

Whole Class

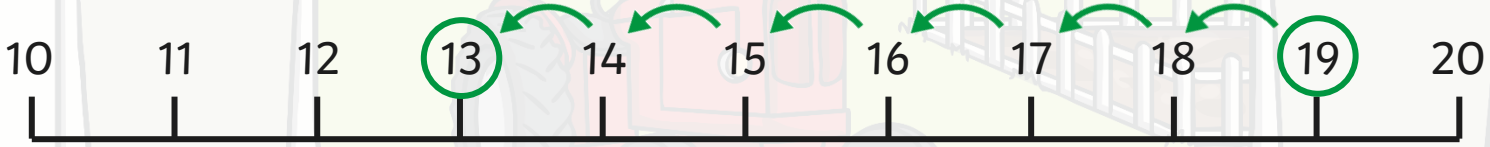
How much does Cho have to spend now?

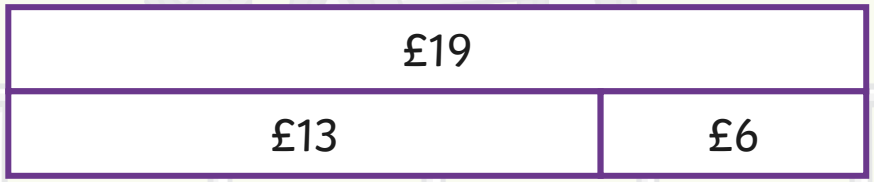


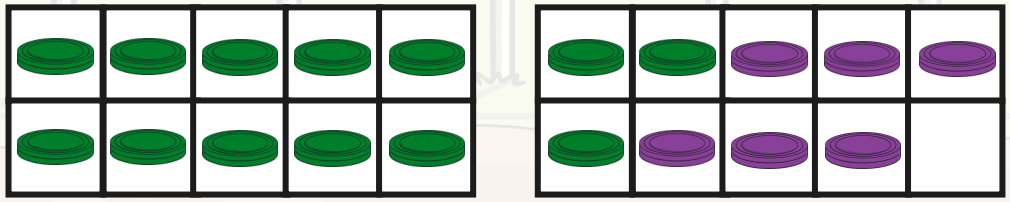
# A Day Out


Cho has spent some money so we're subtracting.
**£19 – £6 = ?**

We could use equipment.



# Bouncy Castle

Whole Class

Cho and Ben went down the slide on the bouncy castle 18 times altogether. Cho went down 15 times. How many goes did Ben have?

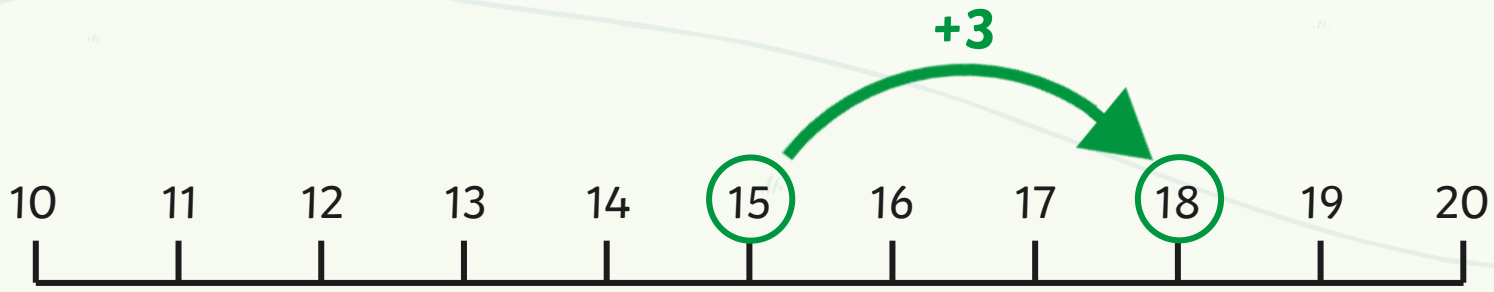
# Bouncy Castle


Cho and Ben went down the slide on the bouncy castle 18 times.
Cho went down 15 times. How many goes did Ben have?

We don't know how many turns Ben had. How could we work it out?

| 18 | |
|---|---|
| 15 | ? |

We could use a number line.



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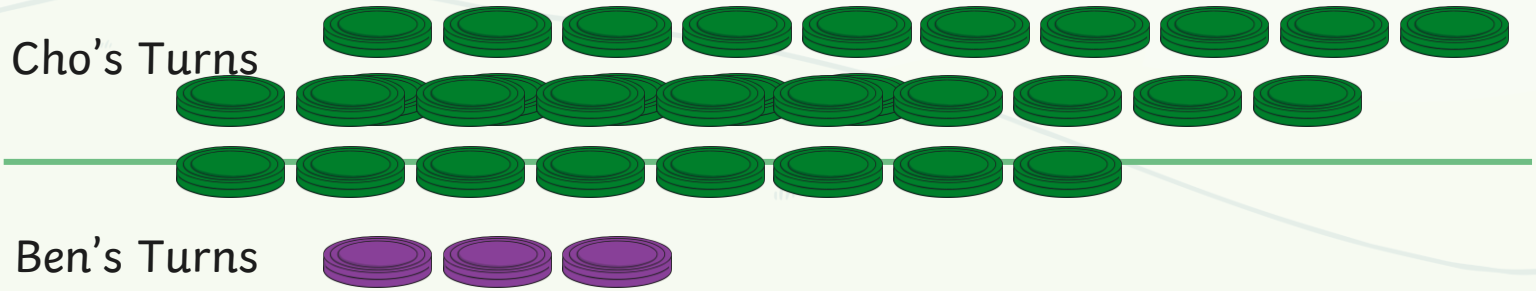
Cho went down 15 times. How many goes did Ben have?

We don't know how many turns Ben had. How could we work it out?

| 18 | |
|---|---|
| 15 | ? |

We could use equipment.



# Bouncy Castle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Cho went down 15 times. How many goes did Ben have?

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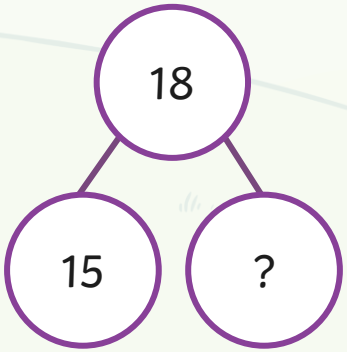
| 18 | |
|---|---|
| 15 | ? |

We could draw a picture.



# Bouncy Castle


Cho and Ben went down the slide on the bouncy castle 18 times. Cho went down 15 times. How many goes did Ben have?

We don't know how many turns Ben had. How could we work it out?

| 18 | |
|---|---|
| 15 | **3** |

**Ben had 3 goes.**

# Winnings

| Piggy Back Race | Egg and Spoon Race | Wheelbarrow Race |
|---|---|---|
| **1st Place:** 11 points | **1st Place:** 12 points | **1st Place:** 15 points |
| **2nd Place** 7 points | **2nd Place:** 6 points | **2nd Place:** 10 points |
| **3rd Place:** 4 points | **3rd Place:** 3 points | **3rd Place:** 5 points |

Cho came 2nd in the egg and spoon race and 2nd in the in the wheelbarrow race.

Ben came 1st in the piggy back race and 3rd in the egg and spoon race.

How much did they both win? How much less did Ben win than Cho?

Show your thinking in as many ways as you can, using equipment or models.

# Winnings

**Piggy Back Race**

**1st Place:** 11 points

**2nd Place:** 7 points

**3rd Place:** 4 points

**Egg and Spoon Race**

**1st Place:** 12 points

**2nd Place:** 6 points

**3rd Place:** 3 points

**Wheelbarrow Race**

**1st Place:** 15 points

**2nd Place:** 10 points

**3rd Place:** 5 points

10 + 6 = 16

**Cho won 16p.**

| 16 | |
|---|---|
| 10 | 6 |

11 + 3 = 14

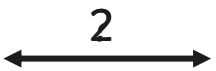
**Ben won 14p.**

| 14 | |
|---|---|
| 11 | 3 |

Ben scored 2 points less than Cho.

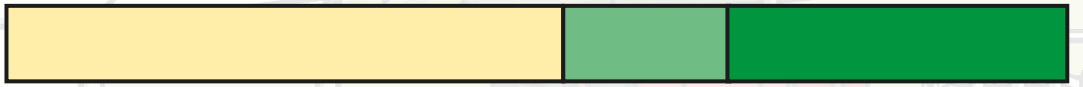
Cho's winnings: 16p

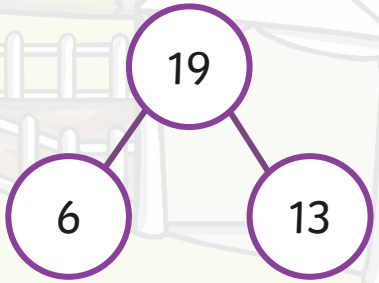
Ben's winnings: 14p

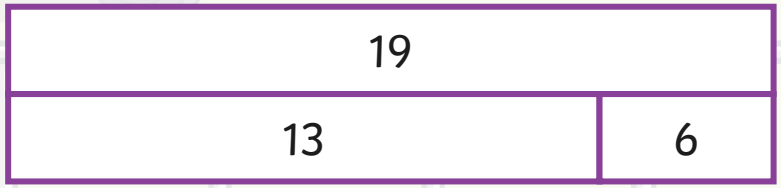


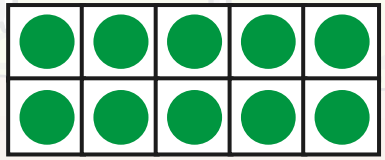
# The Great North Show

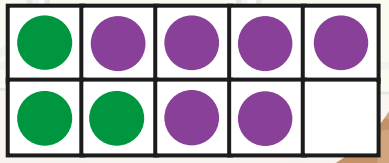
Work with a partner to solve the problems on your activity sheet.
Represent your work in as many ways as you can.
**Here are some examples:**



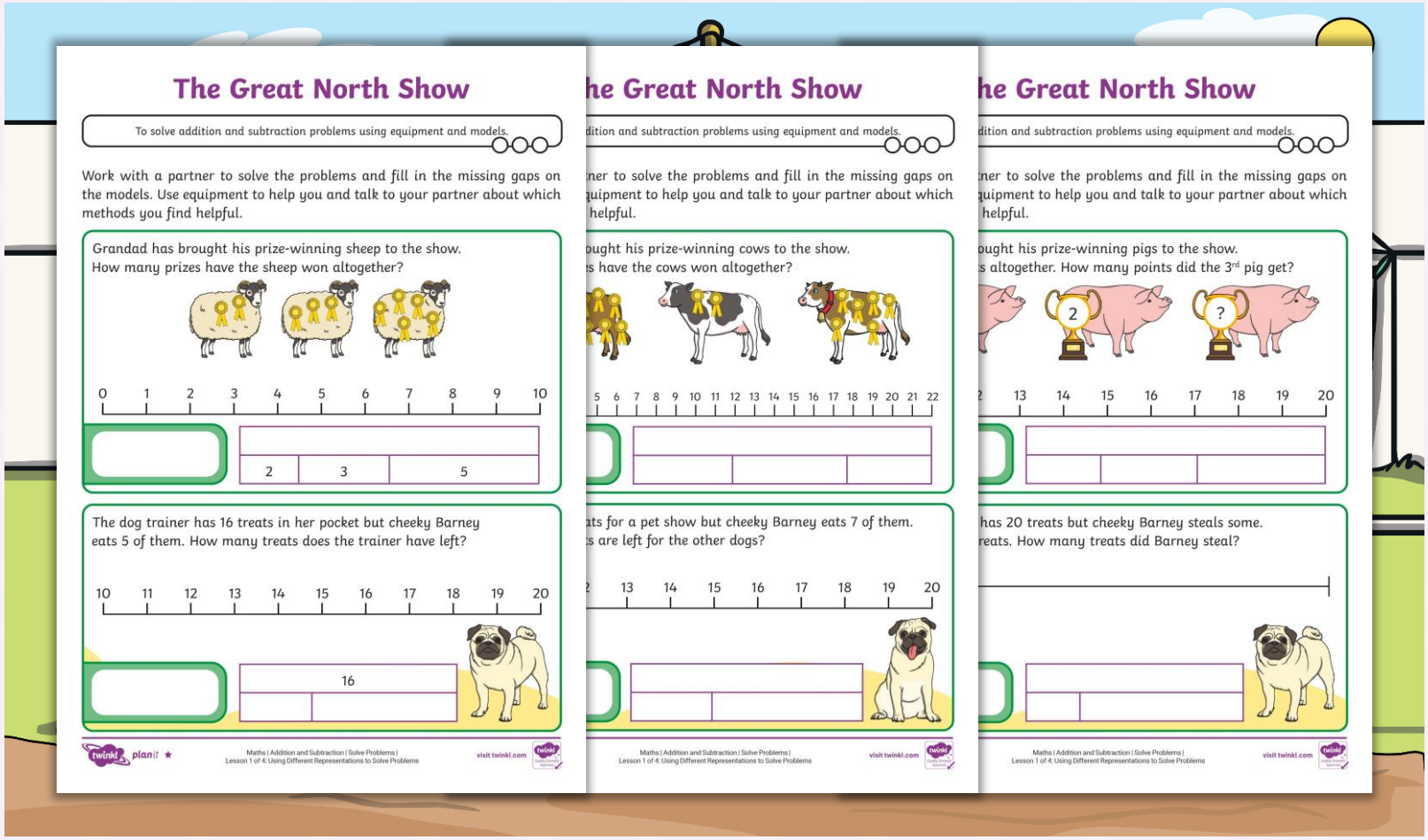





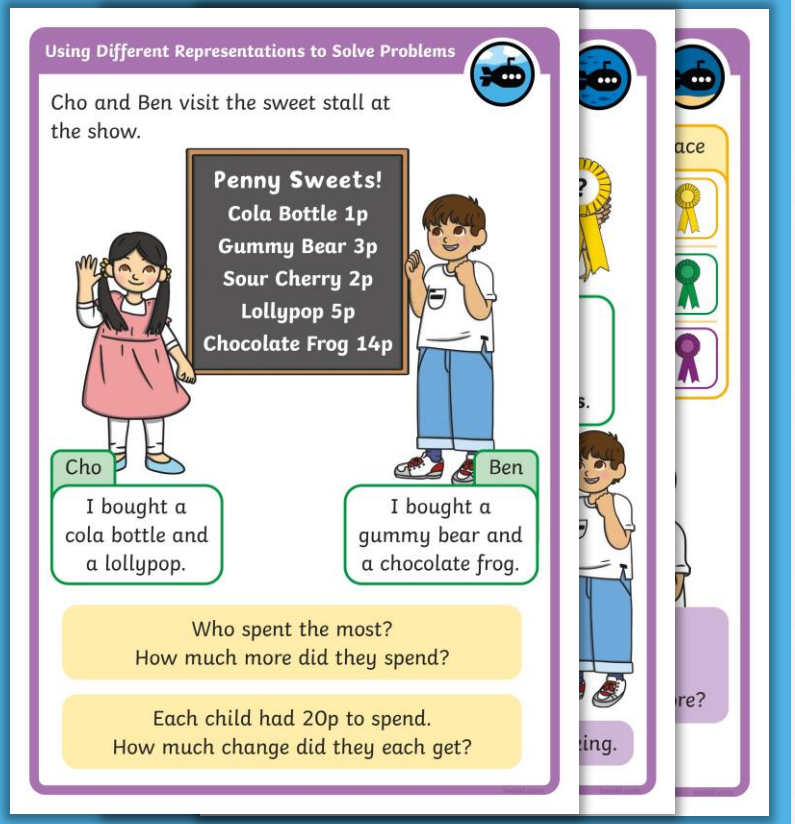
Click on a model to make the rest disappear. Click **here** to show them all.

# The Great North Show



## Diving into Mastery

Dive in by completing your own activity!



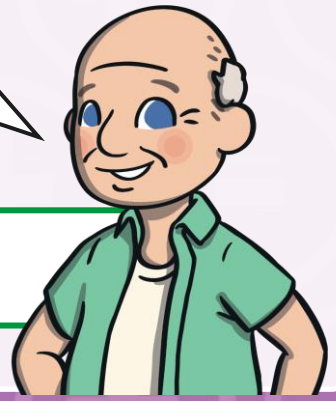
# Grandad's Prizes

Whole Class

| Piggy Back Race | Egg and Spoon Race | Wheelbarrow Race |
|---|---|---|
| **1st Place:** 11 points | **1st Place:** 12 points | **1st Place:** 15 points |
| **2nd Place** 7 points | **2nd Place:** 6 points | **2nd Place:** 10 points |
| **3rd Place:** 4 points | **3rd Place:** 3 points | **3rd Place:** 5 points |

Grandad scored 19 points in 3 races.

Show your thinking in as many ways as you can, using equipment or models.



Where did he come in each race?

# Grandad's Prizes

Whole Class

| Piggy Back Race | Egg and Spoon Race | Wheelbarrow Race |
|---|---|---|
| **1st Place:** 11 points | **1st Place:** 12 points | **1st Place:** 15 points |
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| **3rd Place:** 4 points | **3rd Place:** 3 points | **3rd Place:** 5 points |

1st place in piggy back,
3rd place in egg and spoon,
3rd place in wheelbarrow.

| 19 | | |
|---|---|---|
| 11 | 3 | 5 |

What strategy did you use? Did you try different combinations? Did you look at the ones column? Could you represent this in different ways?

# Aim

- To solve addition and subtraction problems using equipment and models.

# Success Criteria

- I can use equipment to solve a problem.
- I can use a model to solve a problem.
- I can choose a representation to help me solve a problem.


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