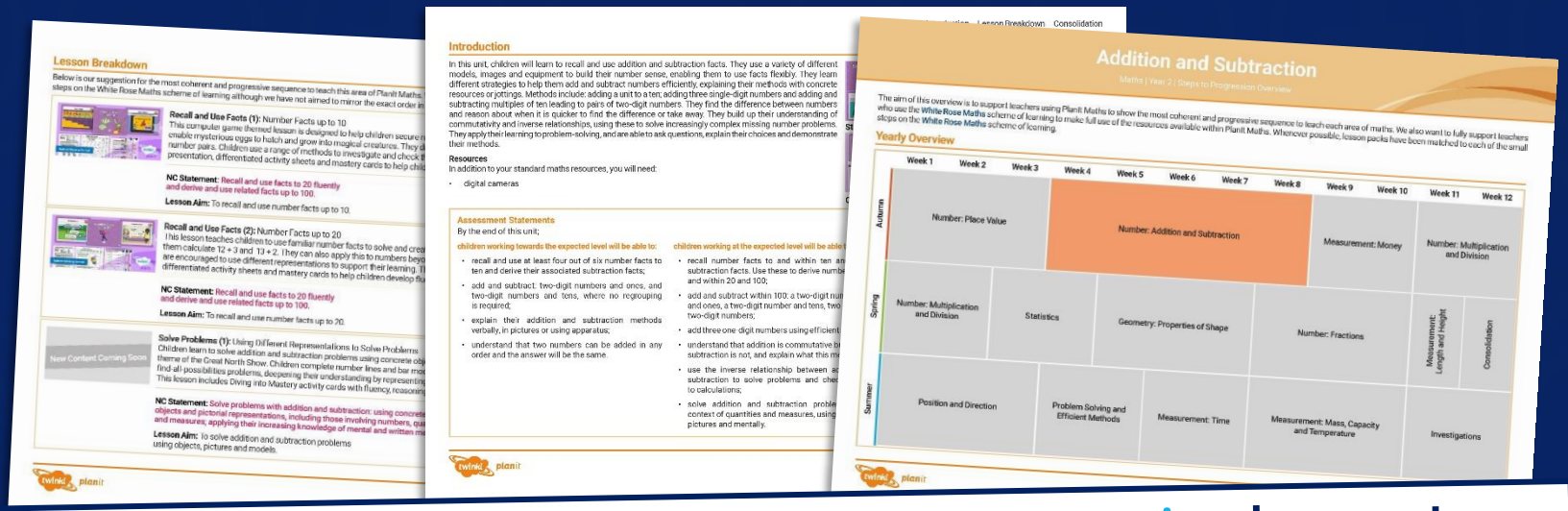
Maths

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.

twinkl planit

Add Two 2-Digit Numbers, Crossing Ten

Aim

- To add two 2-digit numbers by adding the ones (crossing 10) and the tens.

Success Criteria

- I can use place value grids to add two 2-digit numbers, crossing ten.
- I can use part-whole models to add two 2-digit numbers, crossing ten.

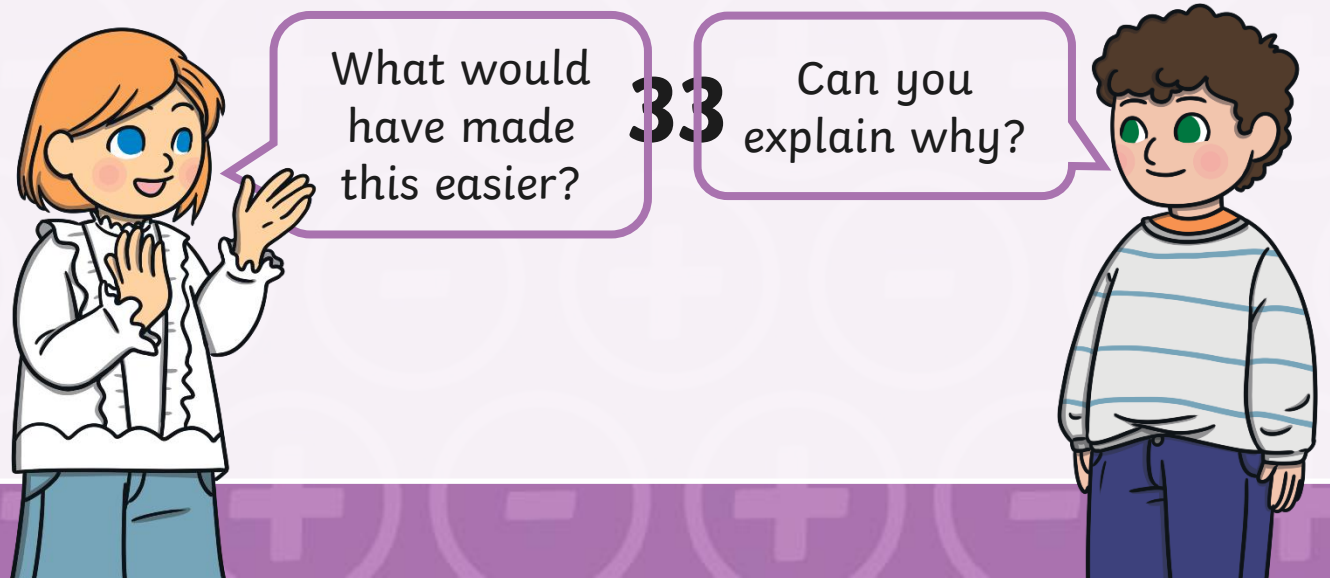
Remember It

Can you match the numbers with the groups of place value counters?

10	1	10
1	10	1

1	10	1
10	1	1

1	1	1
1	10	1



Remember It

Now the tens and ones have their own columns.
Is it easier to match them with the numbers?

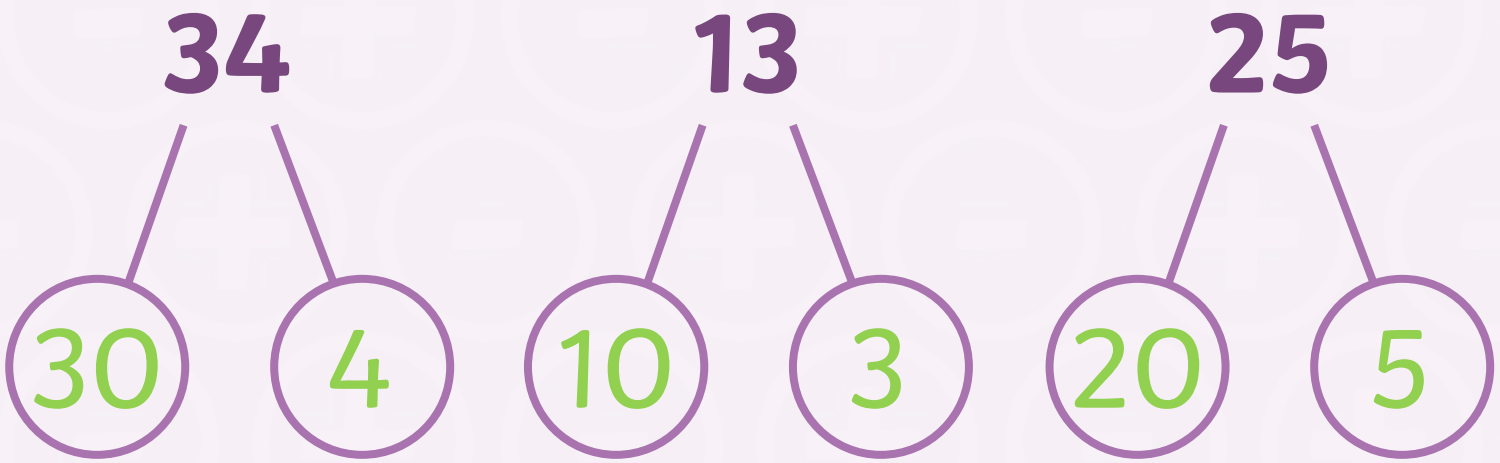
Tens	Ones
10 10	1 1 1 1 1

Tens	Ones
10 10 10	1 1 1 1

Tens	Ones
10	1 1 1

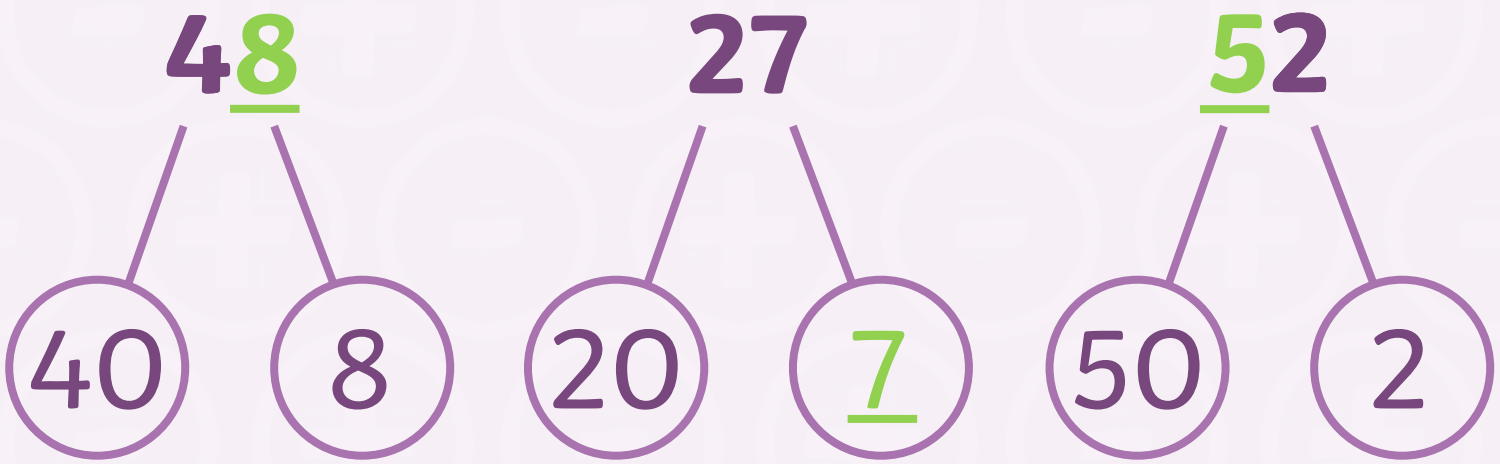
Remember It

Can you use tens and ones to complete the part-whole models?



Remember It

Can you complete the part-whole models?



Partitioning numbers into tens and ones will help us with today's challenges.

High Score

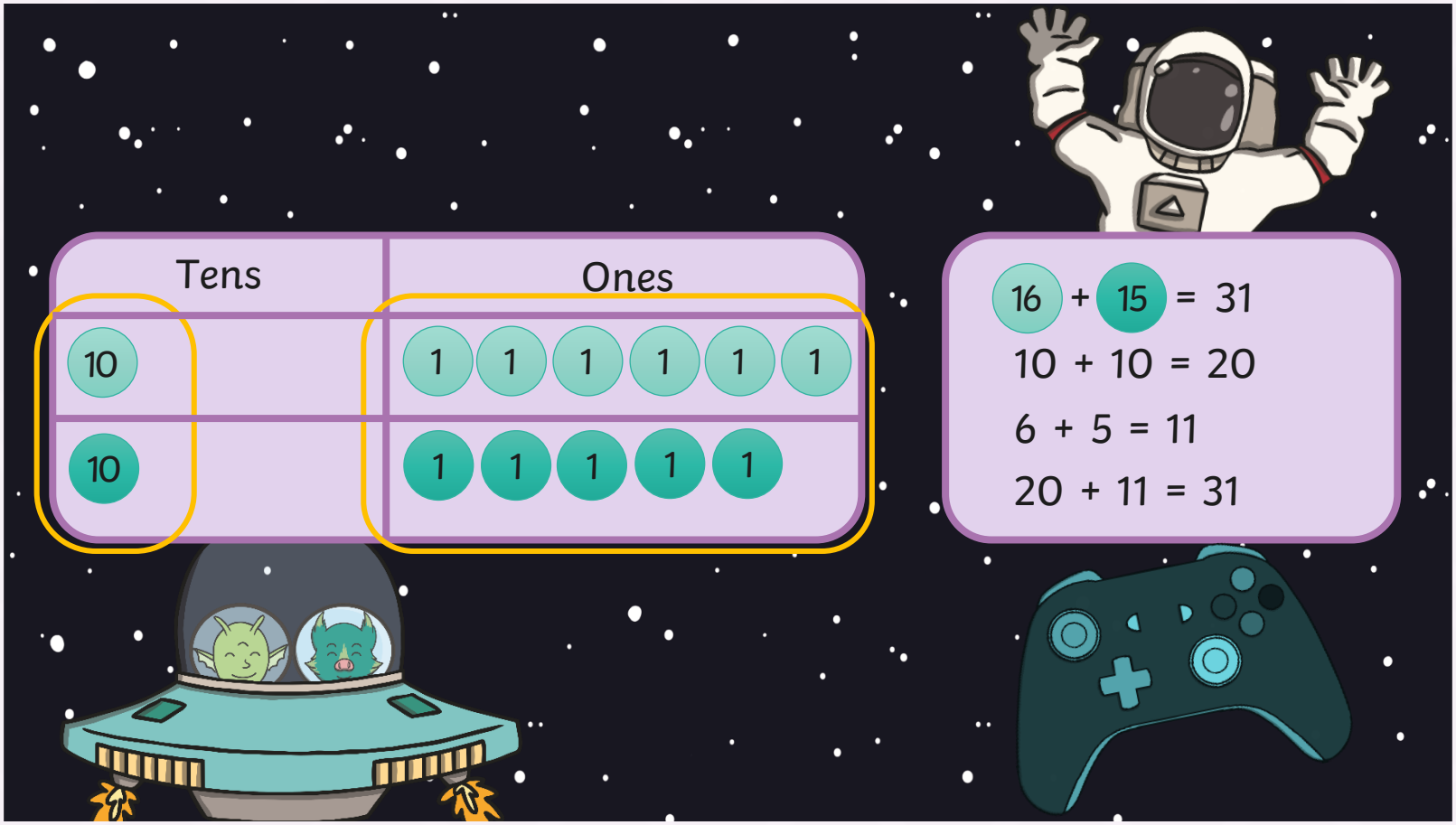
Whole Class

Find out by adding their individual scores.

High Score

Whole Class

Anna used a place value grid to find the total.

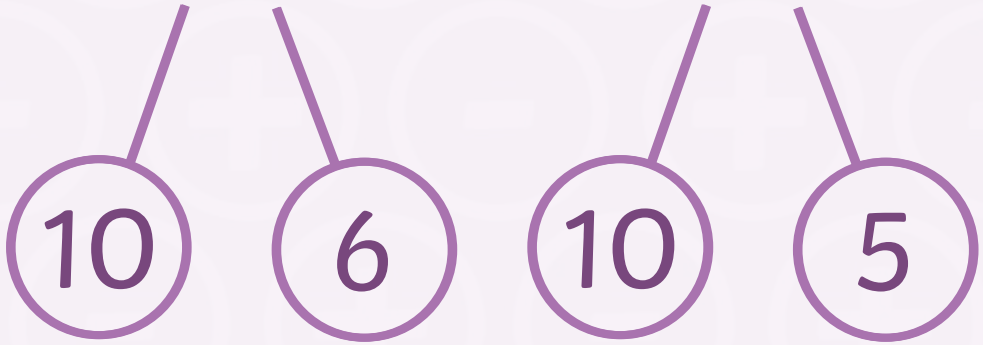


High Score

Whole Class

Felix used part-whole models to find the total.

16 + 15 = 31



10 + 10 = 20

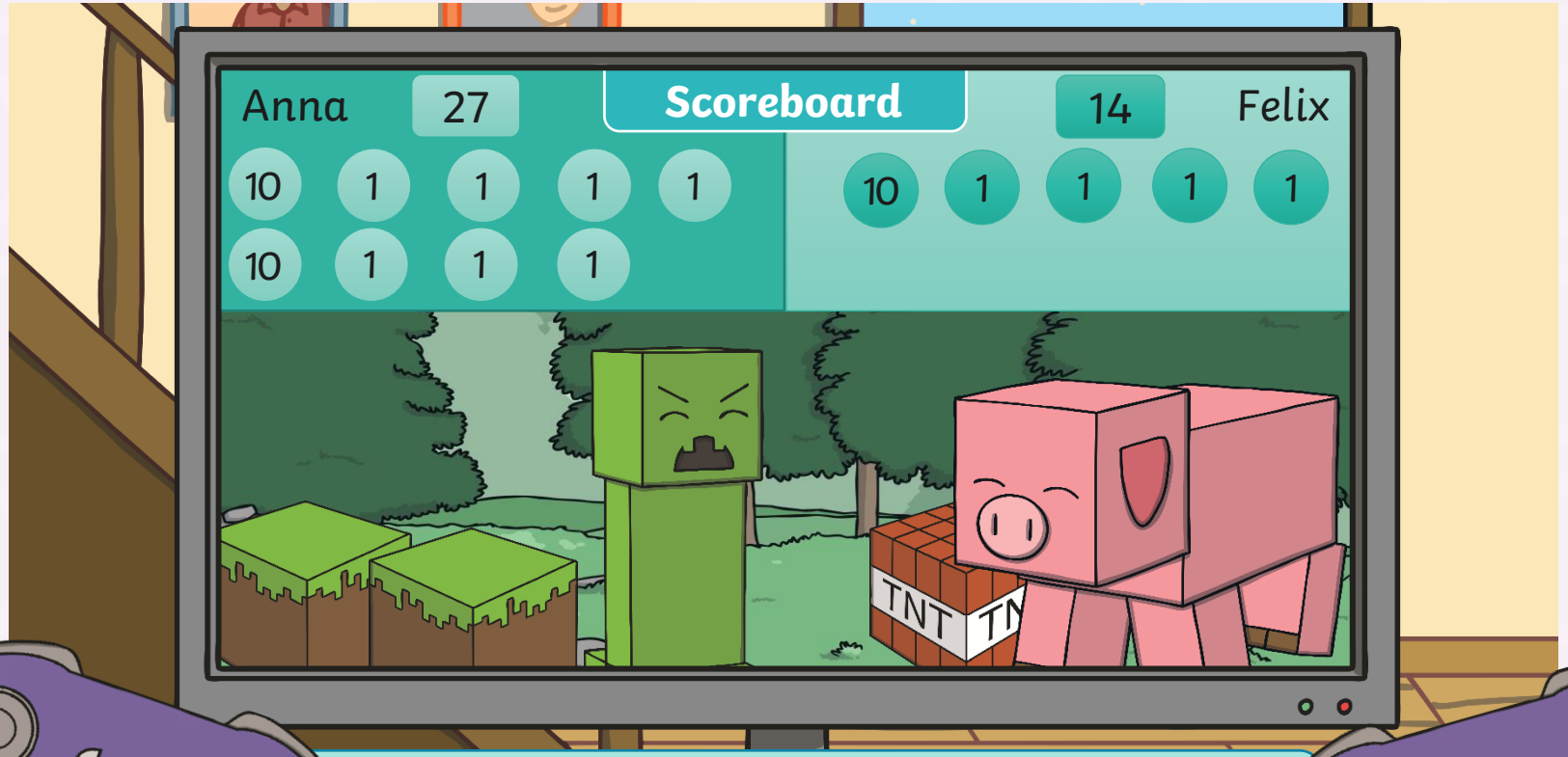
6 + 5 = 11

20 + 11 = 31

High Score

Whole Class

Let's try some more.

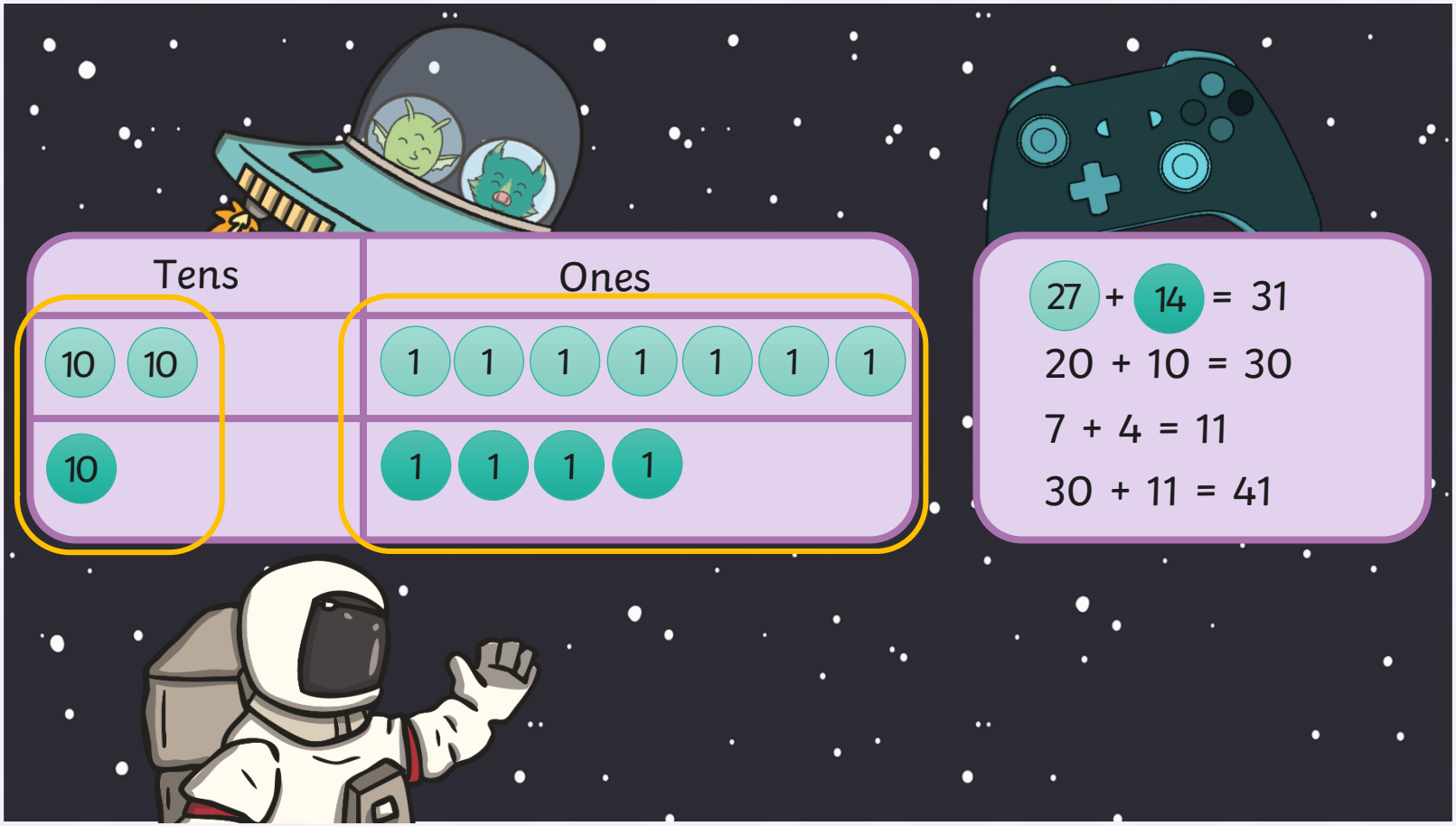


Will you use place value counters or part-whole models?

High Score

Whole Class

Anna used a place value grid to find the total.

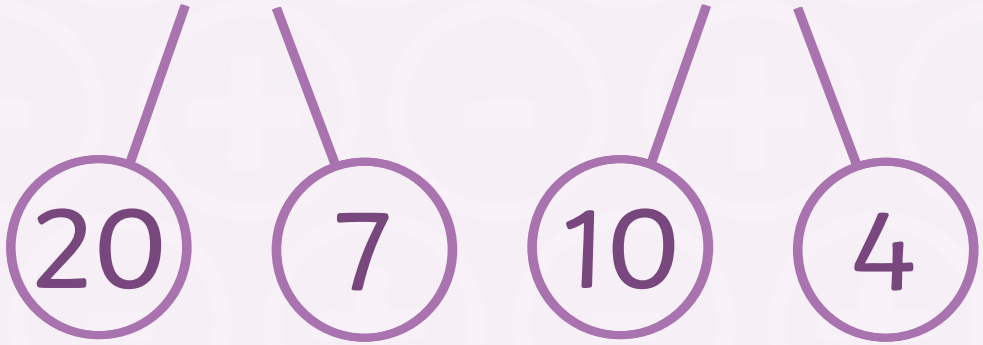


High Score

Whole Class

Felix used part-whole models to find the total.

27 + 14 = 41



20 + 10 = 30

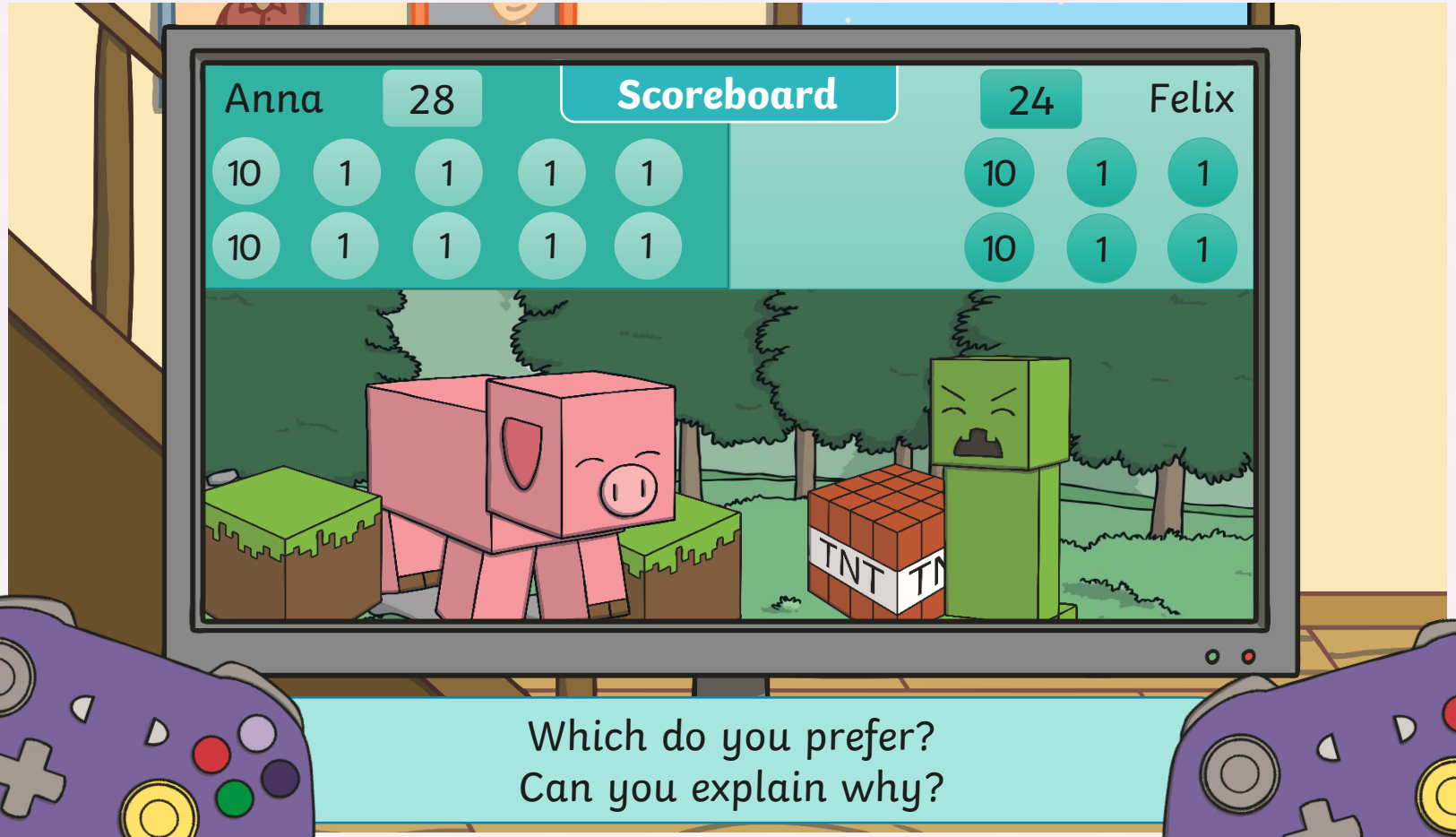
7 + 4 = 11

30 + 11 = 41

High Score

Whole Class

Use place value columns or part-whole models to find the total.

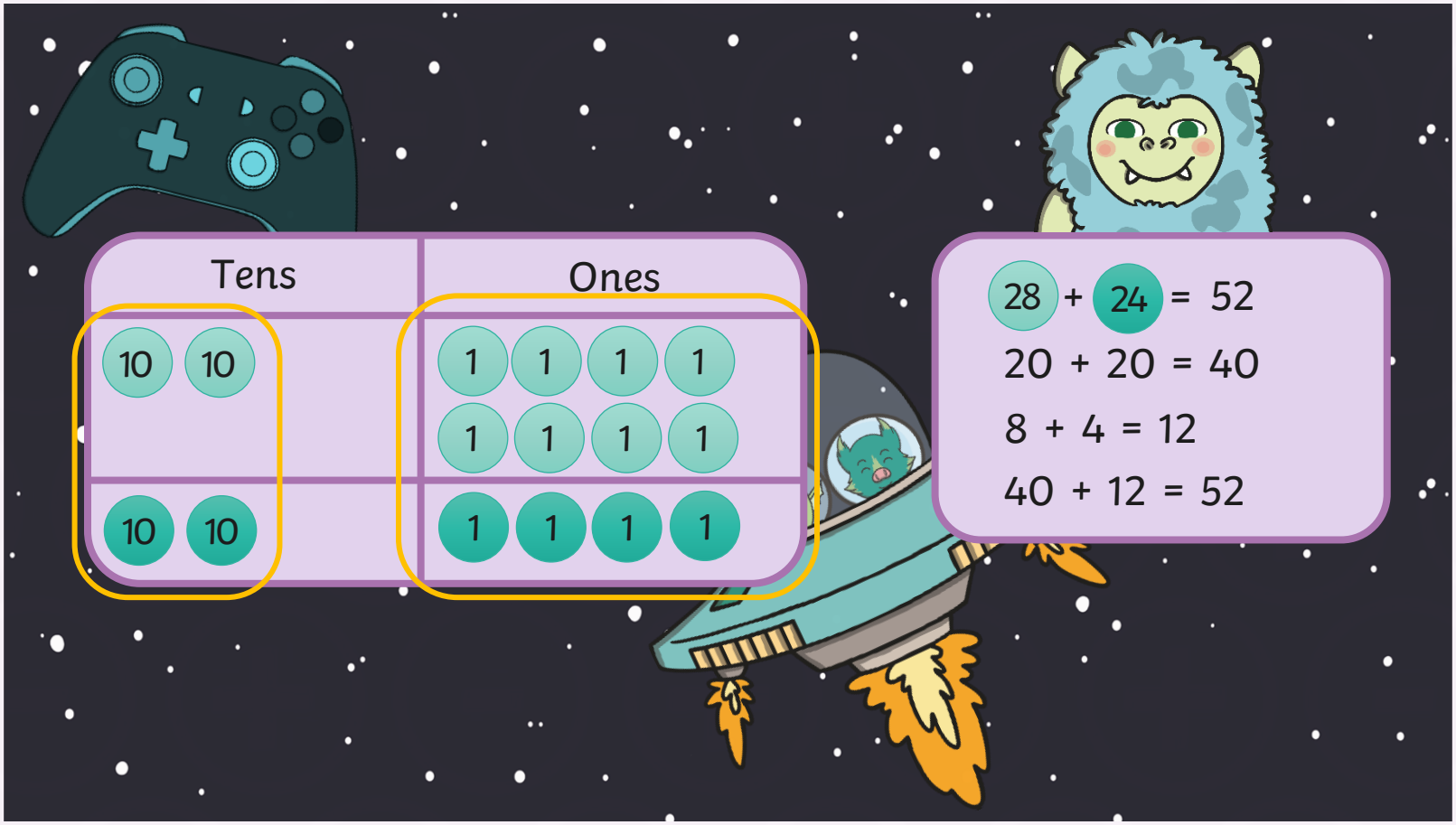


Which do you prefer?
Can you explain why?

High Score

Whole Class

Anna used a place value grid to find the total.

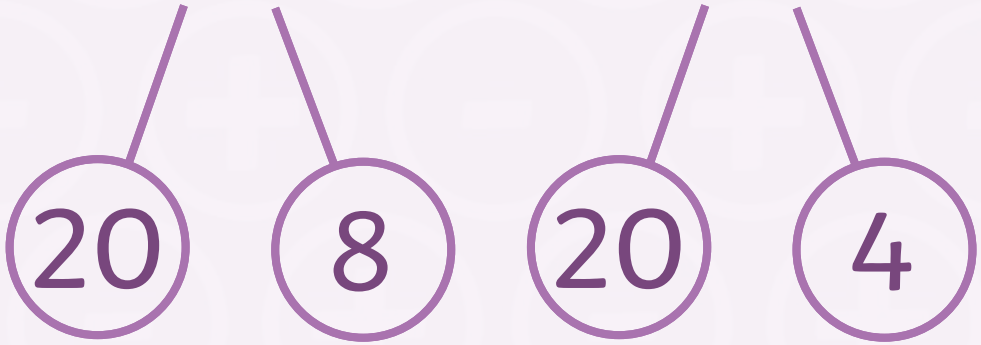


High Score

Whole Class

Felix used part-whole models to find the total.

28 + 24 = 52



20 + 20 = 40

8 + 4 = 12

40 + 12 = 52

High Score Activity

High Score

To add two 2-digit numbers by adding the ones (crossing 10) and the tens.

Add the scores to find the total

1.

16 + 15 = ☐

10 + 10 = ☐

6 + 5 = ☐

☐ + ☐ = ☐

Tens	Ones
10	1 1 1 1 1
10	1 1 1 1 1

2.

17 + 16 = ☐

10 7 10 6

10 + 10 = ☐

7 + 6 = ☐

☐ + ☐ = ☐

3.

18 + 25 = ☐

☐ + ☐ = ☐

☐ + ☐ = ☐

☐ + ☐ = ☐

Tens	Ones
10	1 1 1 1 1 1 1 1
10 10	1 1 1 1 1

4.

27 + 26 = ☐

20 7 20 6

☐ + ☐ = ☐

☐ + ☐ = ☐

☐ + ☐ = ☐

High Score

bers by adding the ones (crossing 10) and the tens.

find the total

= ☐

= ☐

= ☐

= ☐

Tens	Ones
10 10	1 1 1 1 1 1 1 1
10	1 1 1 1 1

+ 26 = ☐

20 6

☐ + ☐ = ☐

☐ + ☐ = ☐

☐ + ☐ = ☐

= ☐

= ☐

= ☐

= ☐

Tens	Ones

+ 25 = ☐

☐ + ☐ ☐

☐ + ☐ = ☐

☐ + ☐ = ☐

☐ + ☐ = ☐

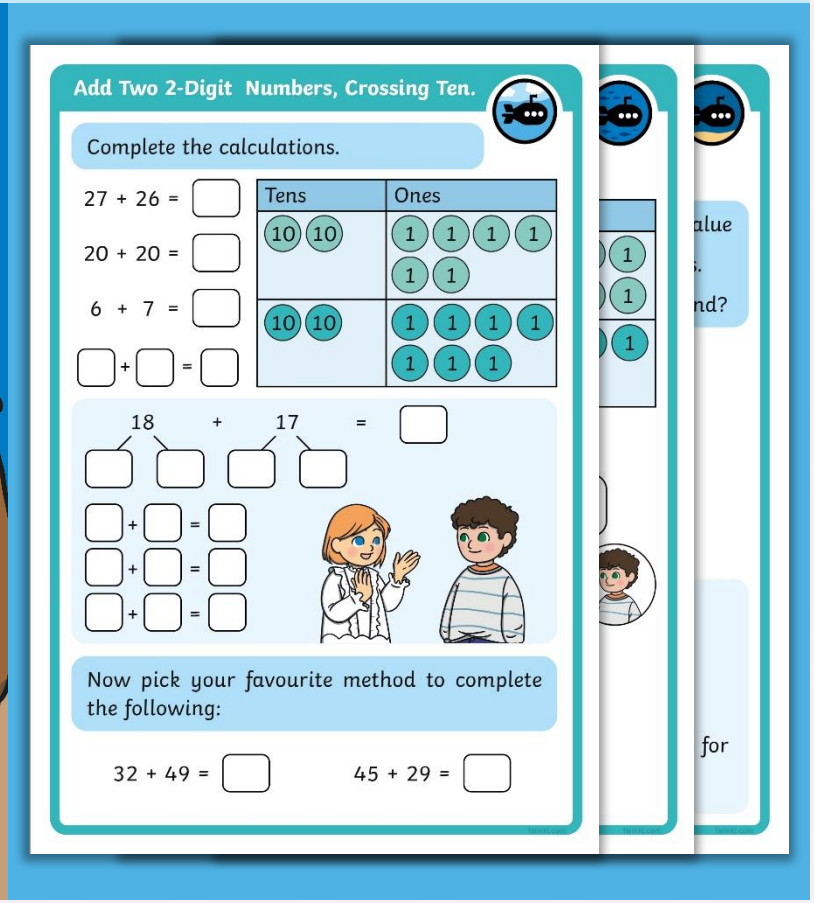
High Score

adding the ones (crossing 10) and the tens.

the total. Use a place value grid or part-whole

Diving into Mastery

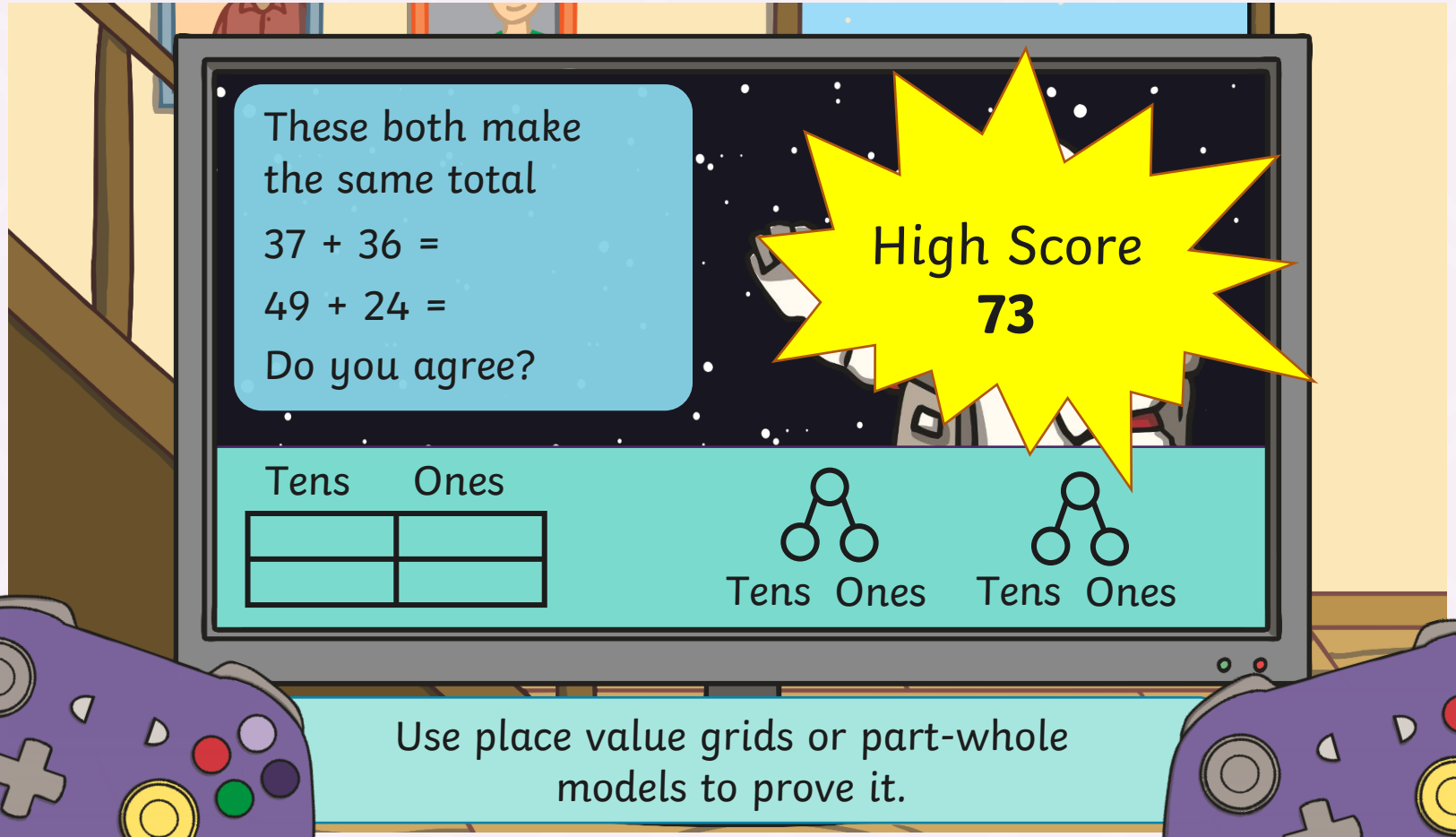
Dive in by completing your own activity!



Check It

Whole Class

Use place value columns or part-whole models to find the total.



Use place value grids or part-whole models to prove it.

Aim

- I can add and subtract a multiple of 10 to and from any 2-digit number.

Success Criteria

- I can use place value grids to add two 2-digit numbers, crossing ten.
- I can use part-whole models to add two 2-digit numbers, crossing ten.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