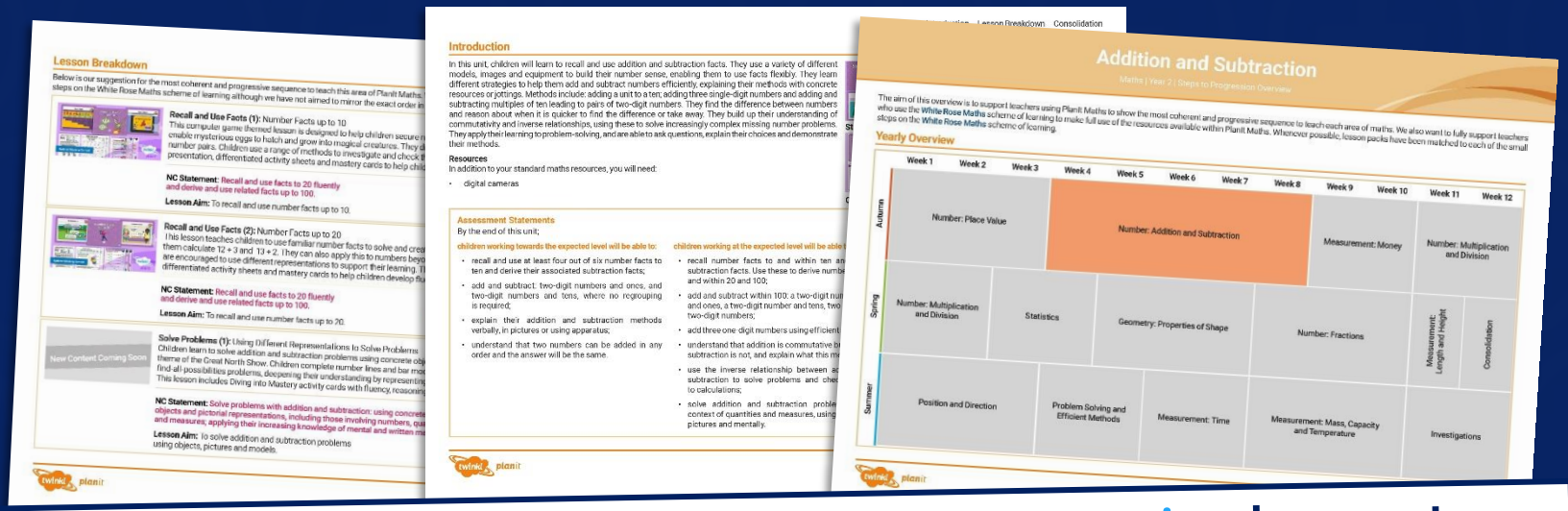
Maths

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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Using the Inverse to Check Calculations

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Quality Standard
Approved

Aim

- To use the inverse relationship to check calculations.

Success Criteria

- I can write an inverse calculation for addition and subtraction.
- I can use addition to check subtraction calculations.
- I can use subtraction to check addition calculations.

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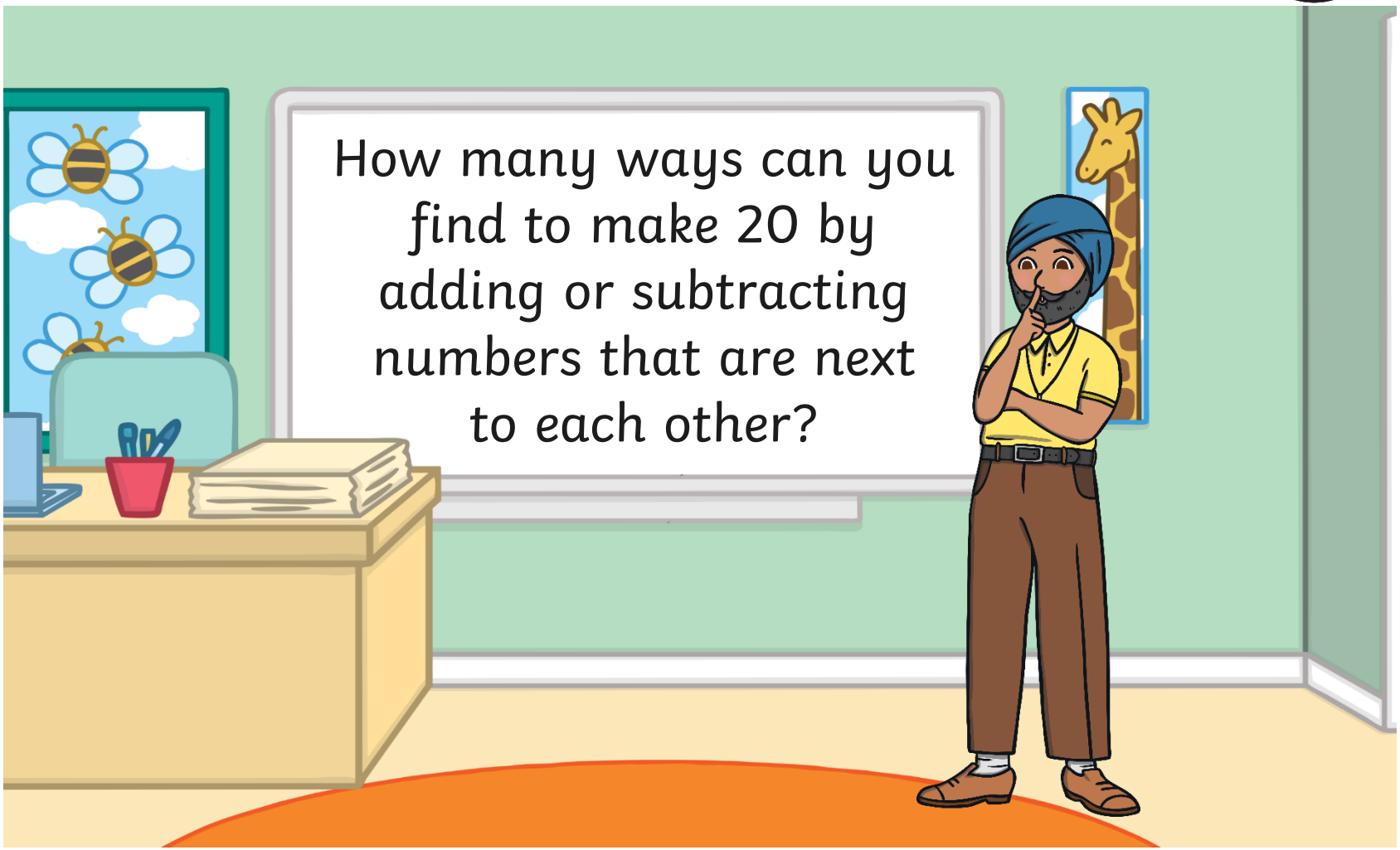
Remember It



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Remember It

20 – 0 = 20

20	0	4	14	10
4	3	12	16	9
19	1	1	2	8
8	0	15	3	14
10	2	13	9	17

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Remember It

20 – 0 = 20

2 + 18 = 20

19 + 1 = 20

There may be other solutions. Did you find any more?

20	0	12	14	11
4	3	4	16	9
19	1	1	2	8
8	18	15	1	14
12	2	13	19	17

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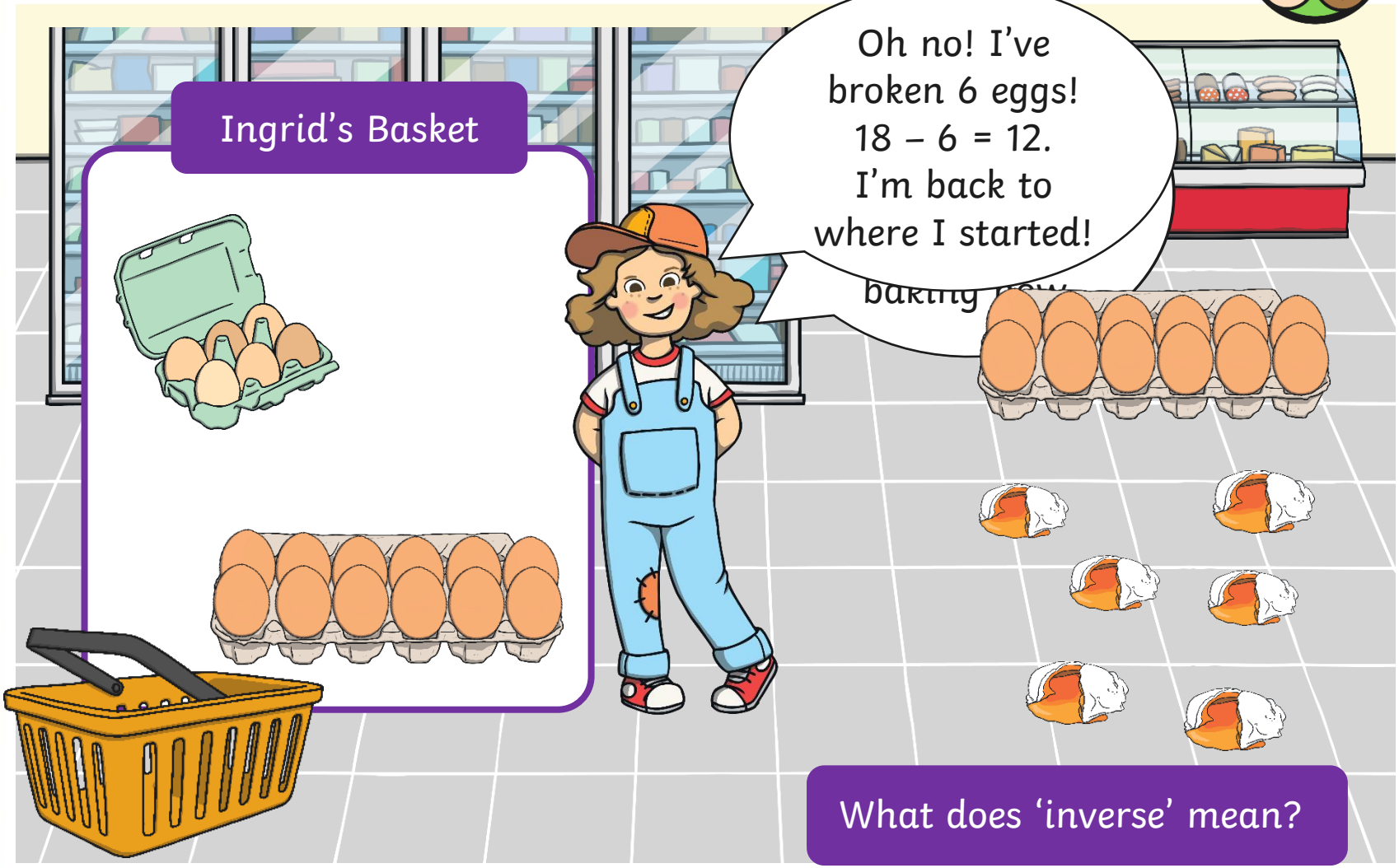
Ingrid Inverses

Whole Class



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Ingrid Inverses

Whole Class

12 + 6 = 18

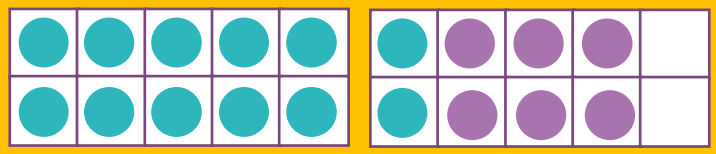
18 - 6 = 12

What do you notice?

What's the same? What's different?

If I subtract the amount I added, I get back to where I started.

+ and **-** are inverses.



18	
12	6

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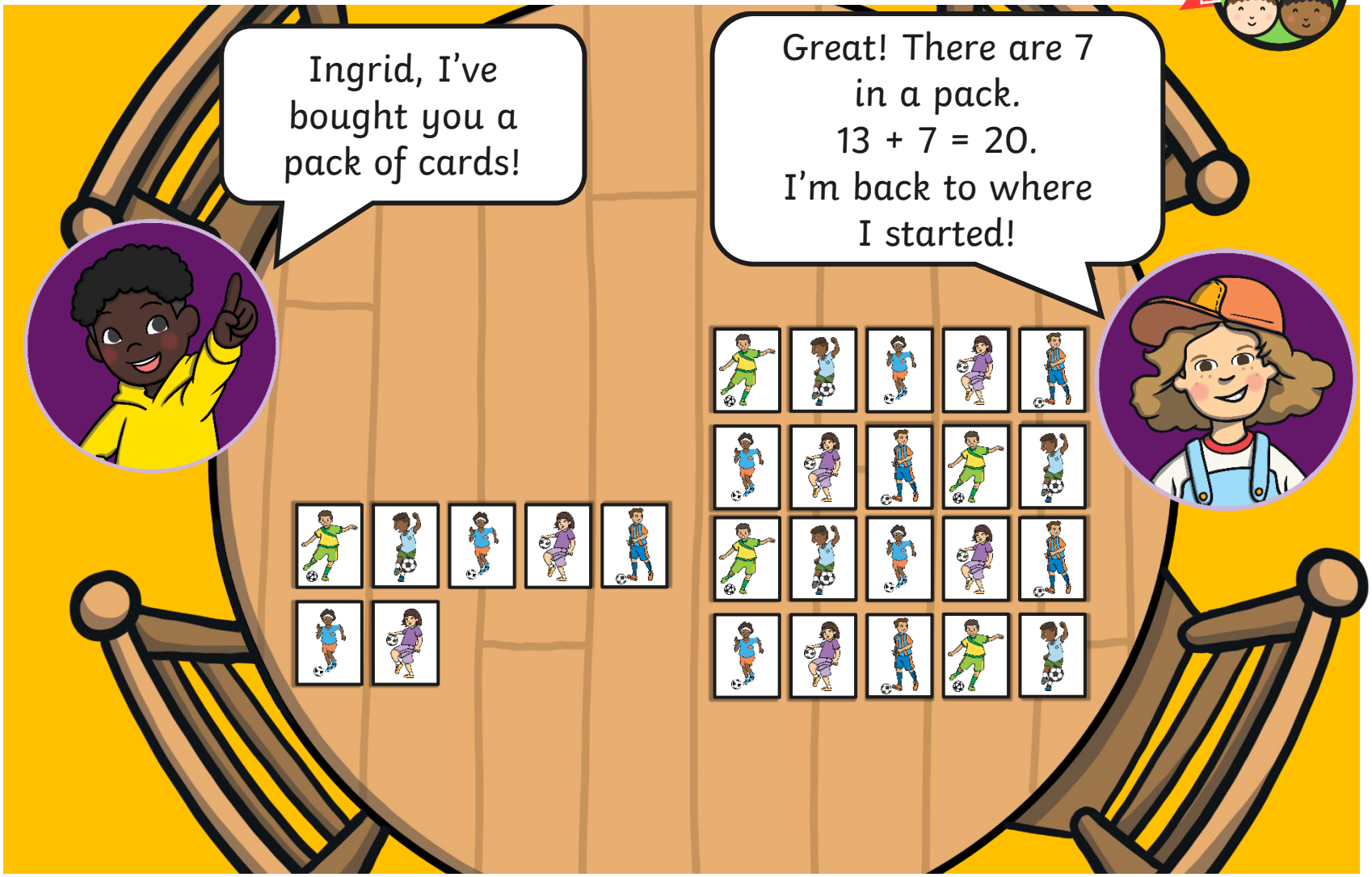
Ingrid Inverses

Whole Class



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Ingrid Inverses

Whole Class

20 - 7 = 13

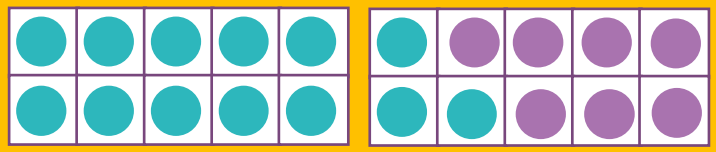
13 + 7 = 20

What do you notice?

What's the same? What's different?

If I subtract the amount I added, I get back to where I started.

+ and **-** are inverses.



20	
13	7

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Charley Cheat and Honest Hamish

This is Charley Cheat.
Charley cheats at everything!

He likes to give incorrect answers and pretend that they are true but we are on to him!

We can check an inverse to see if he's cheated!

Honest Hamish never cheats. He always answers honestly.

Check using the inverse to see who you're dealing with!

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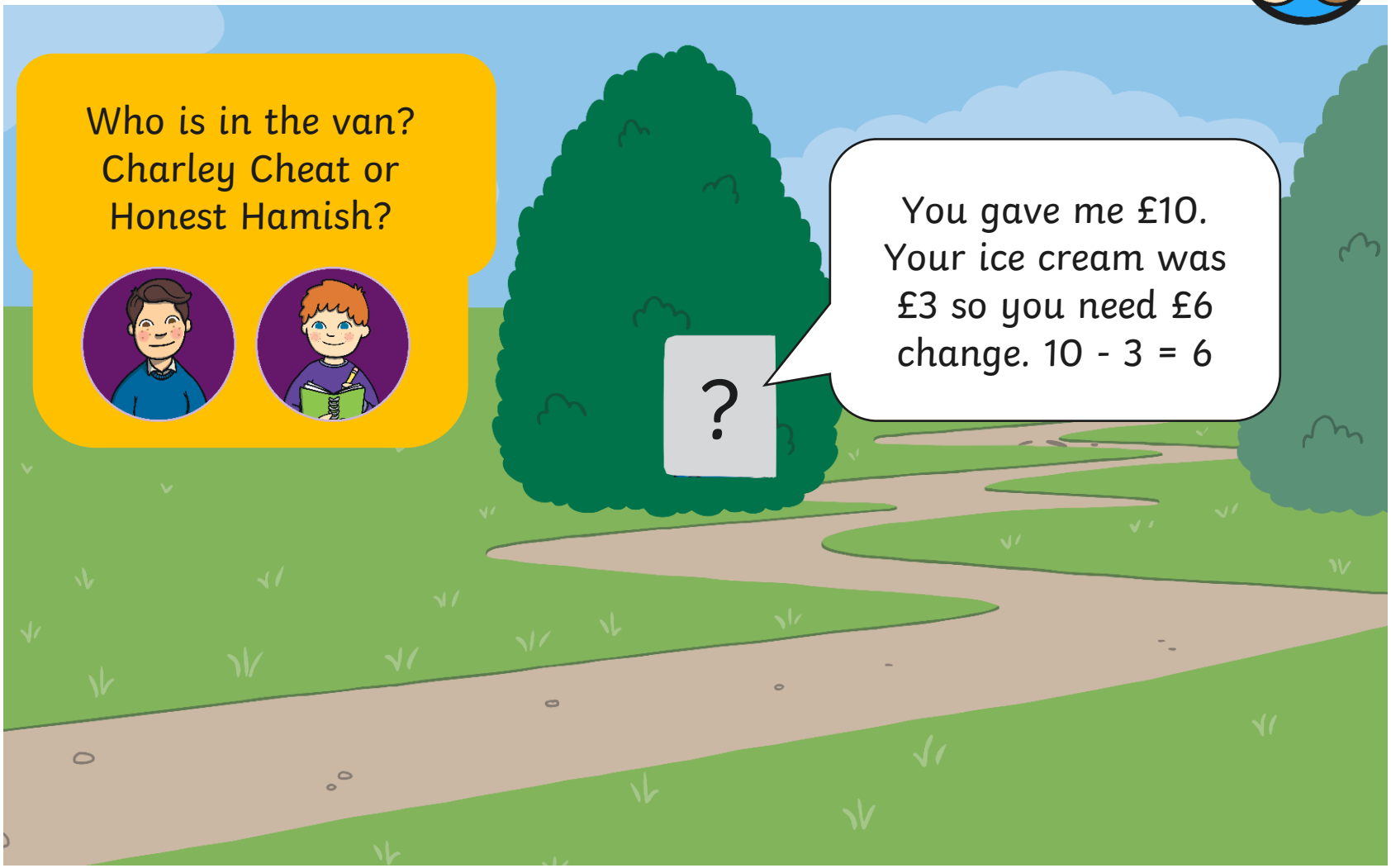
Whose Work?



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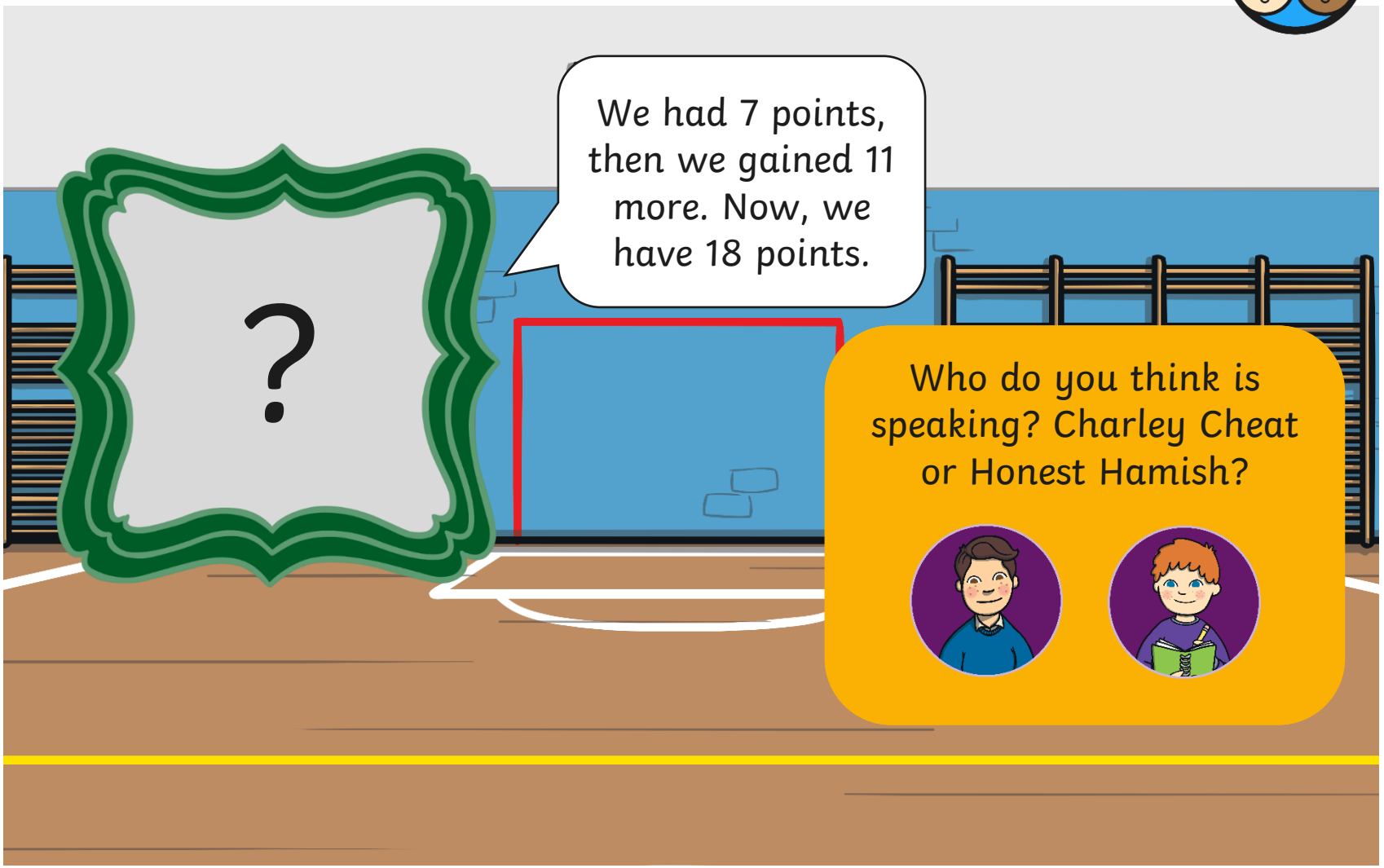
Whose Work?



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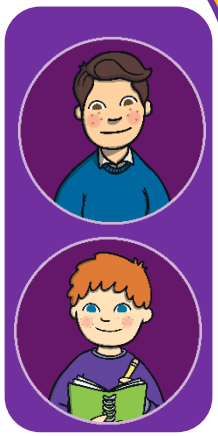
Whose Work?

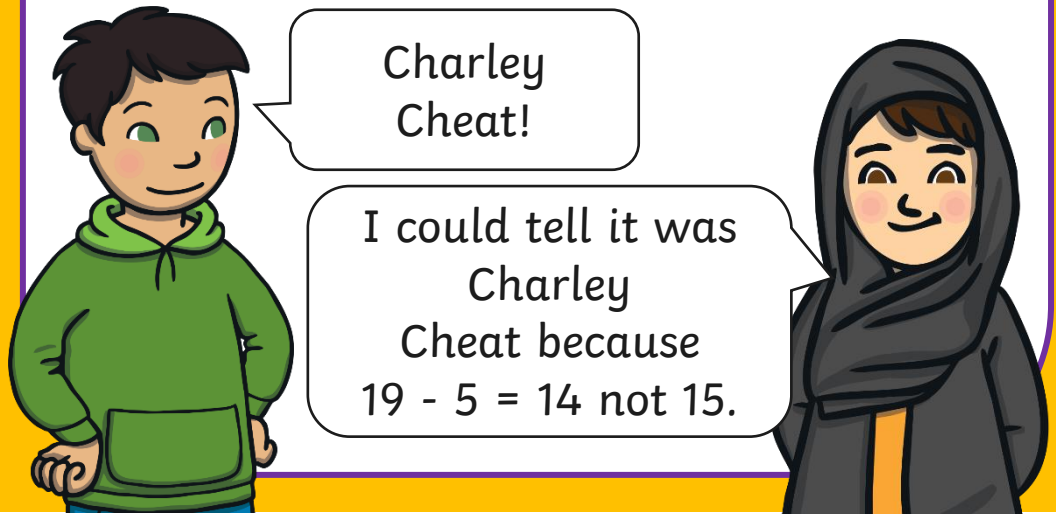
Whole Class

Who does this work belong to:
Charley Cheat or Honest Hamish?

$5 + 15 = 19$



Don't answer until you're sure!



Click here when you're sure whose work it is.

Can you write a correct inverse sentence?

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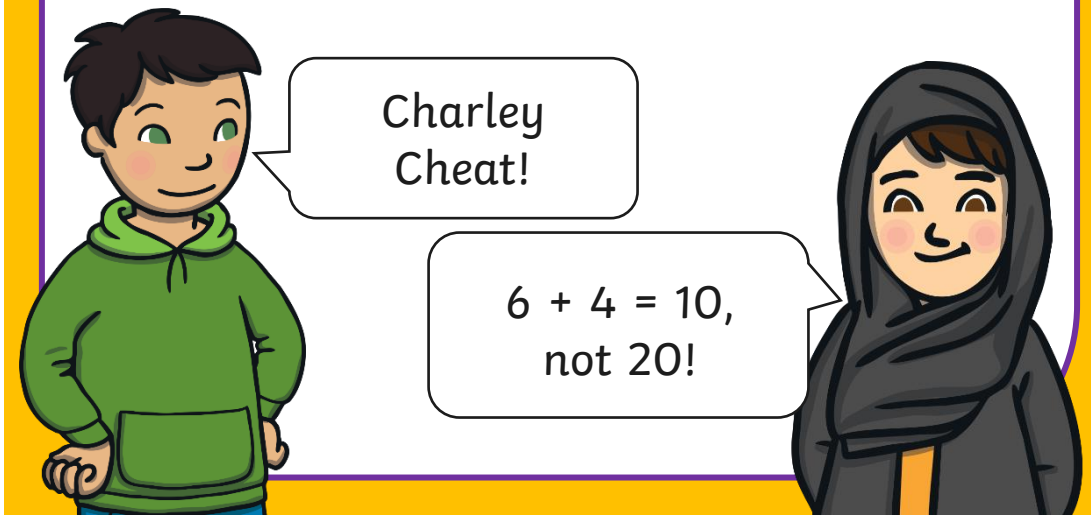
Whose Work?

Whole Class

Who does this work belong to:
Charley Cheat or Honest Hamish?

$$20 - 6 = 4$$

Don't answer until you're sure!



Click here when you're sure whose work it is.

Can you write a correct inverse sentence?

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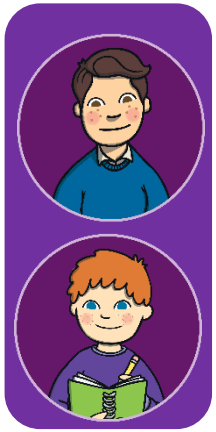
Whose Work?

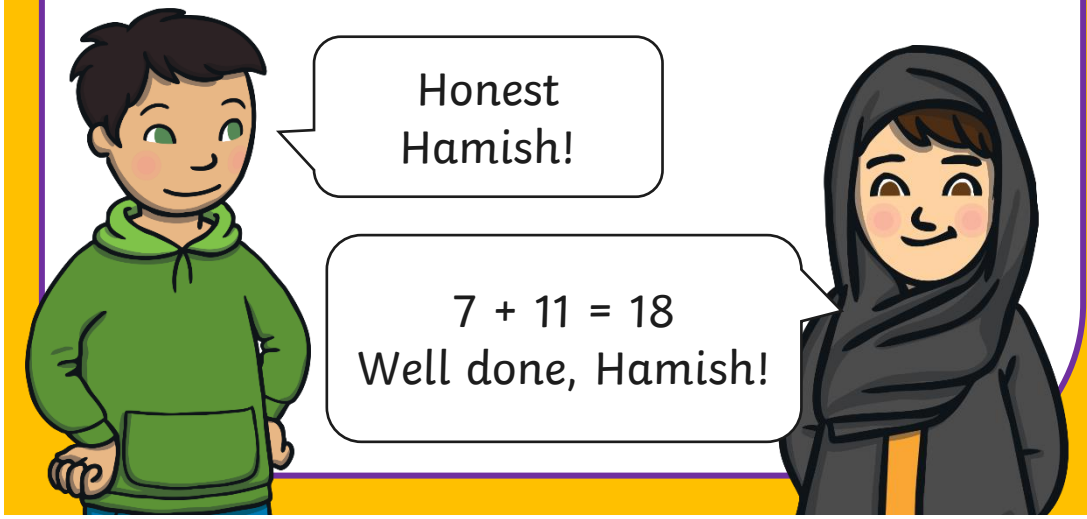
Whole Class

Who does this work belong to:
Charley Cheat or Honest Hamish?

$$18 - 7 = 11$$



Don't answer until you're sure!



Click here when you're sure whose work it is.

Can you write a correct inverse sentence?

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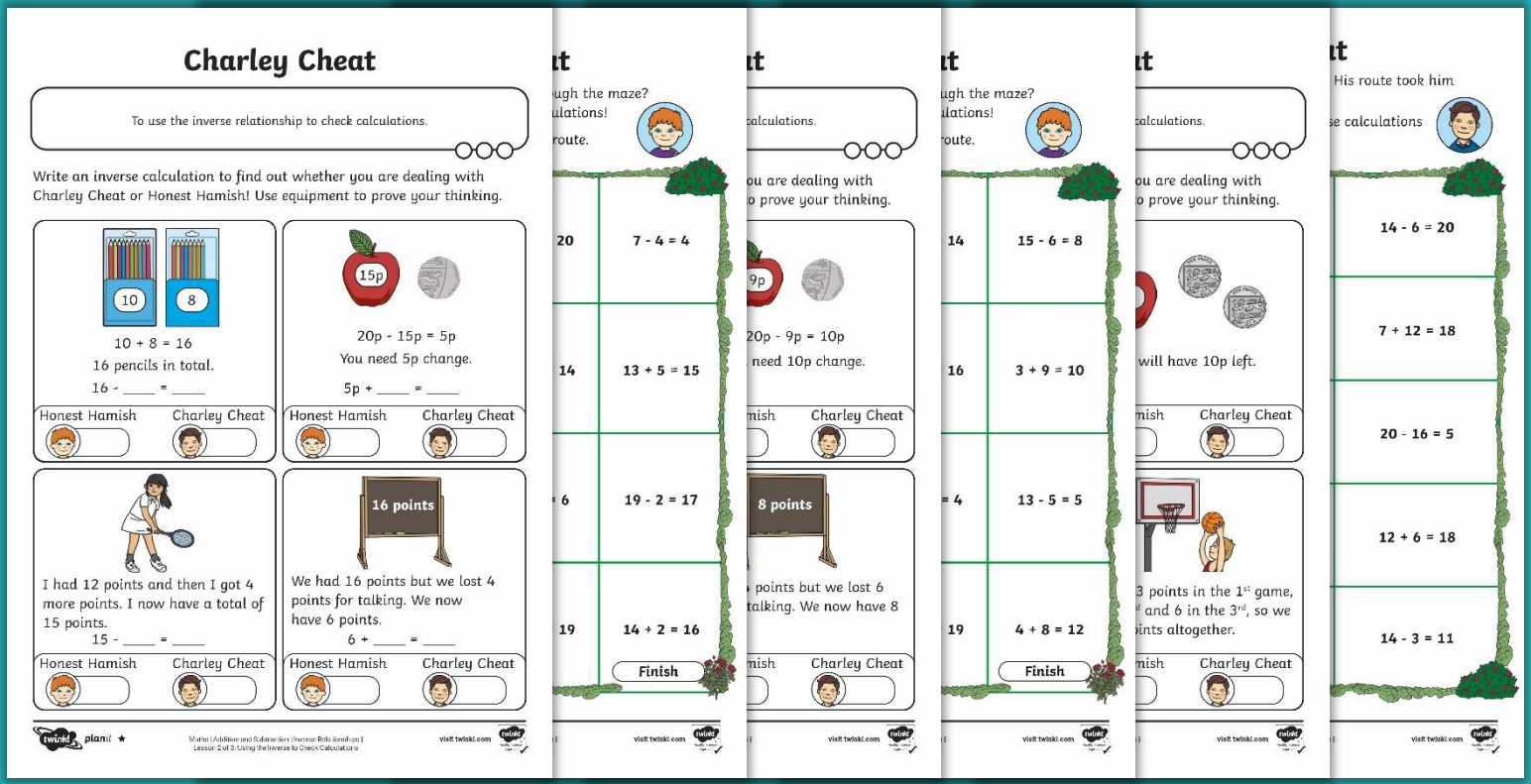
Charley Cheat or Honest Hamish?



Charley Cheat

To use the inverse relationship to check calculations.

Write an inverse calculation to find out whether you are dealing with Charley Cheat or Honest Hamish! Use equipment to prove your thinking.

10 + 8 = 16

16 pencils in total.

16 - ____ = ____

Honest Hamish Charley Cheat

20p - 15p = 5p

You need 5p change.

5p + ____ = ____

Honest Hamish Charley Cheat

I had 12 points and then I got 4 more points. I now have a total of 15 points.

15 - ____ = ____

Honest Hamish Charley Cheat

We had 16 points but we lost 4 points for talking. We now have 6 points.

6 + ____ = ____

Honest Hamish Charley Cheat

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ıt

ugh the maze?
ulations!
route.

20	7 - 4 = 4
14	13 + 5 = 15
6	19 - 2 = 17
19	14 + 2 = 16

Finish

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calculations.

ou are dealing with
o prove your thinking.

9p

20p - 9p = 10p

need 10p change.

Honest Hamish Charley Cheat

8 points

points but we lost 6
talking. We now have 8

Honest Hamish Charley Cheat

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ıt

ugh the maze?
ulations!
route.

14	15 - 6 = 8
16	3 + 9 = 10
= 4	13 - 5 = 5
19	4 + 8 = 12

Finish

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ıt

calculations.

ou are dealing with
o prove your thinking.

will have 10p left.

Honest Hamish Charley Cheat

3 points in the 1st game,
and 6 in the 3rd, so we
ints altogether.

Honest Hamish Charley Cheat

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ıt

His route took him

se calculations

14 - 6 = 20
7 + 12 = 18
20 - 16 = 5
12 + 6 = 18
14 - 3 = 11

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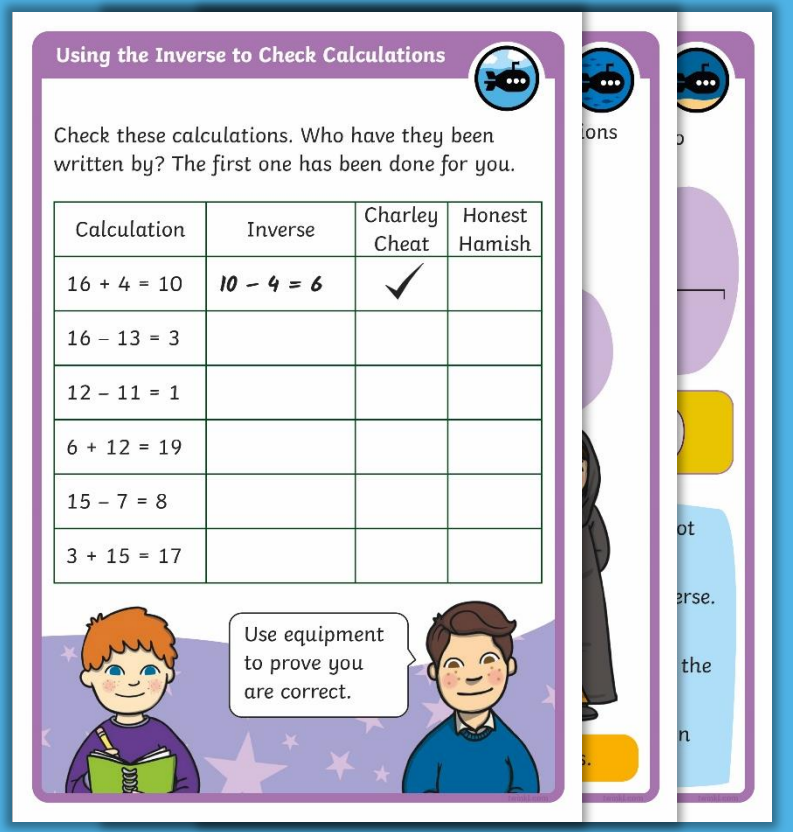
Diving into Mastery

Dive in by completing your own activity!



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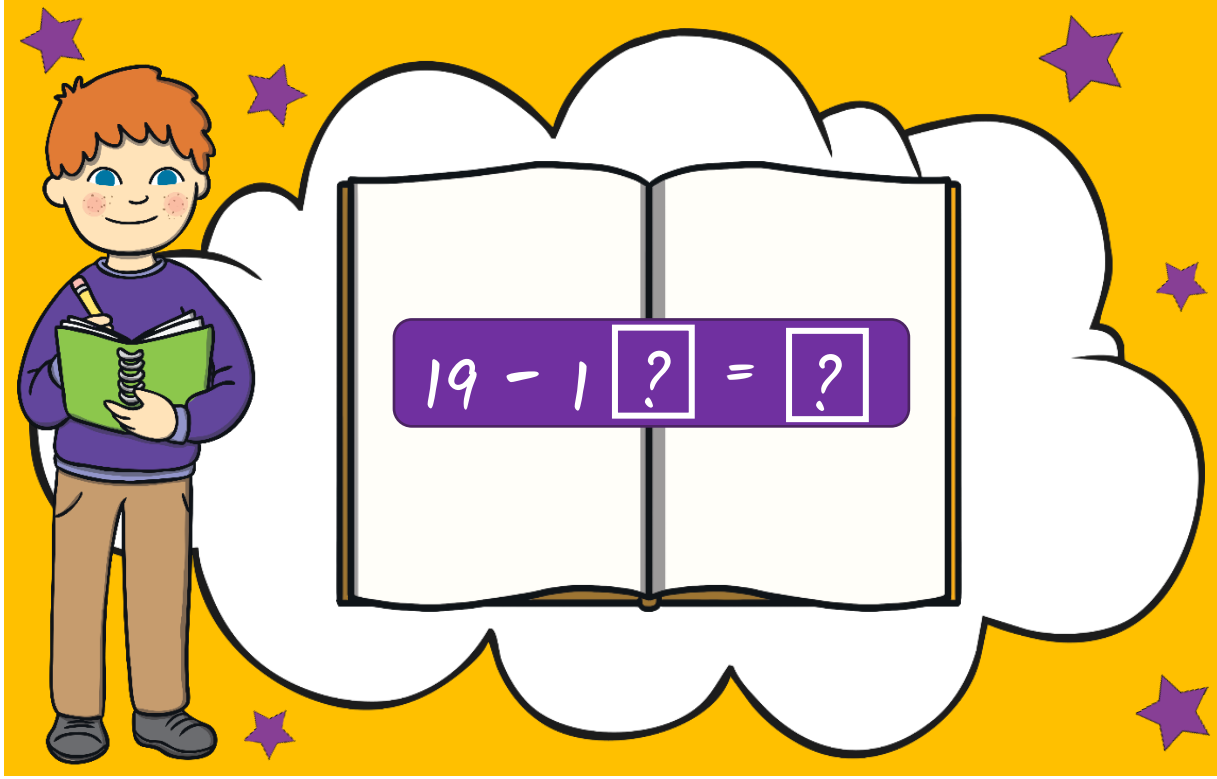
Whose Work Again?

Whole Class

This work belongs to Honest Hamish.

Which numbers could you use to fill in the blank spaces?

Can you find all the different ways to solve this?



19 – 10 = 9

19 – 11 = 8

19 – 12 = 7

19 – 13 = 6

19 – 14 = 5

19 – 15 = 4

19 – 16 = 3

19 – 17 = 2

19 – 18 = 1

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Aim

- To use the inverse relationship to check calculations.

Success Criteria

- I can write an inverse calculation for addition and subtraction.
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