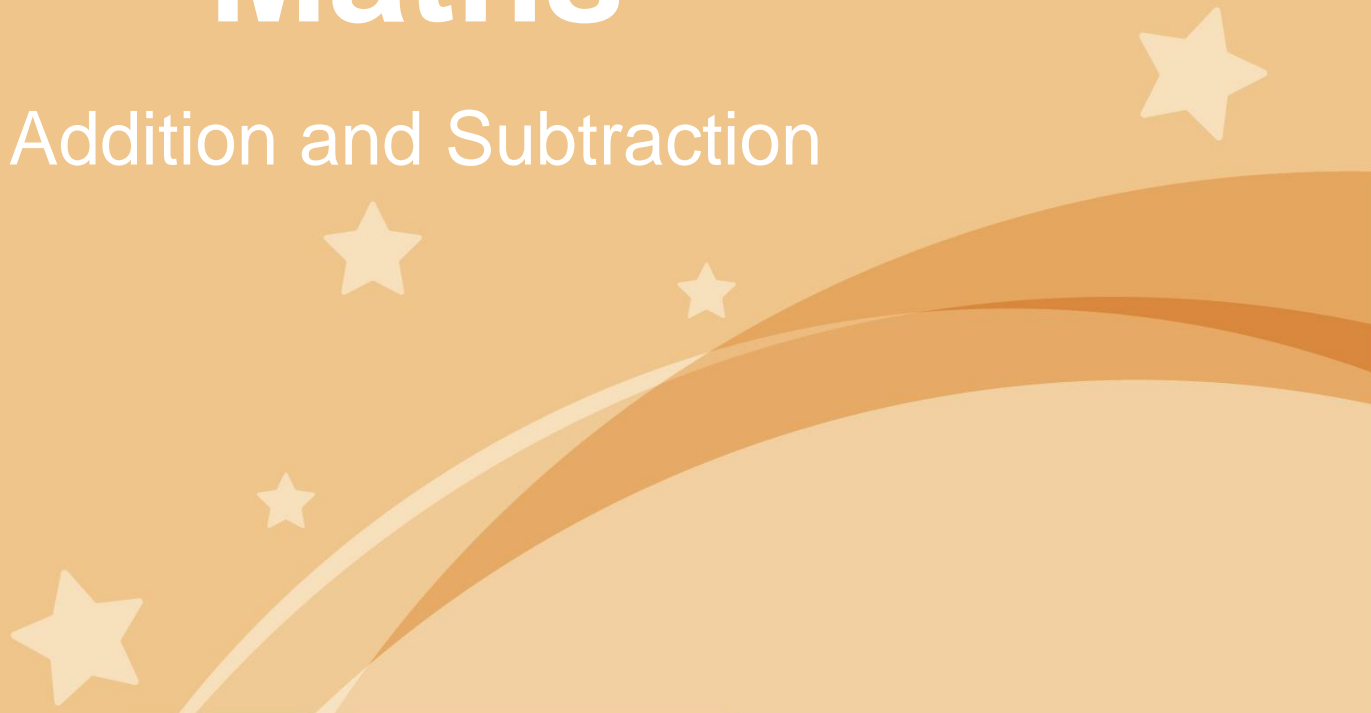




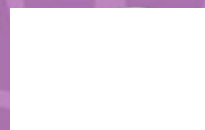
Maths

Addition and Subtraction



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

Add 2-Digit and 1-Digit Numbers Crossing 10



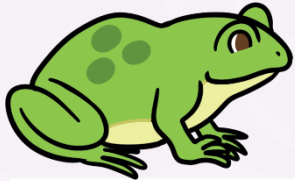
Aim

- To add a 1-digit number to a 2-digit number, crossing ten.

Success Criteria

- I can use known number facts to add numbers that cross a ten boundary.
- I can use a number line to solve addition calculations that cross a ten boundary.
- I can use number patterns to solve addition calculations that cross a ten boundary.

Remember It



Forwards Fred has made number facts of ten.
Some of the numbers are hidden.

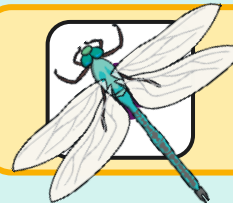
Hold up the correct number of fingers to complete the calculations.

$$1 + \text{[leaf icon]} = 10$$



$$+ 7 = 10$$

$$2 + \text{[butterfly icon]} = 10$$

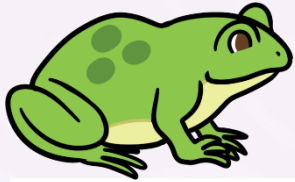


$$+ 6 = 10$$

Can you spot any patterns?

What would come next?

Remember It



Forwards Fred has made number facts of ten.
Some of the numbers are hidden.

Hold up the correct number of fingers to complete the calculations.

$$5 + \boxed{} = 10$$



$$+ 3 = 10$$



$$+ 2 = 10$$



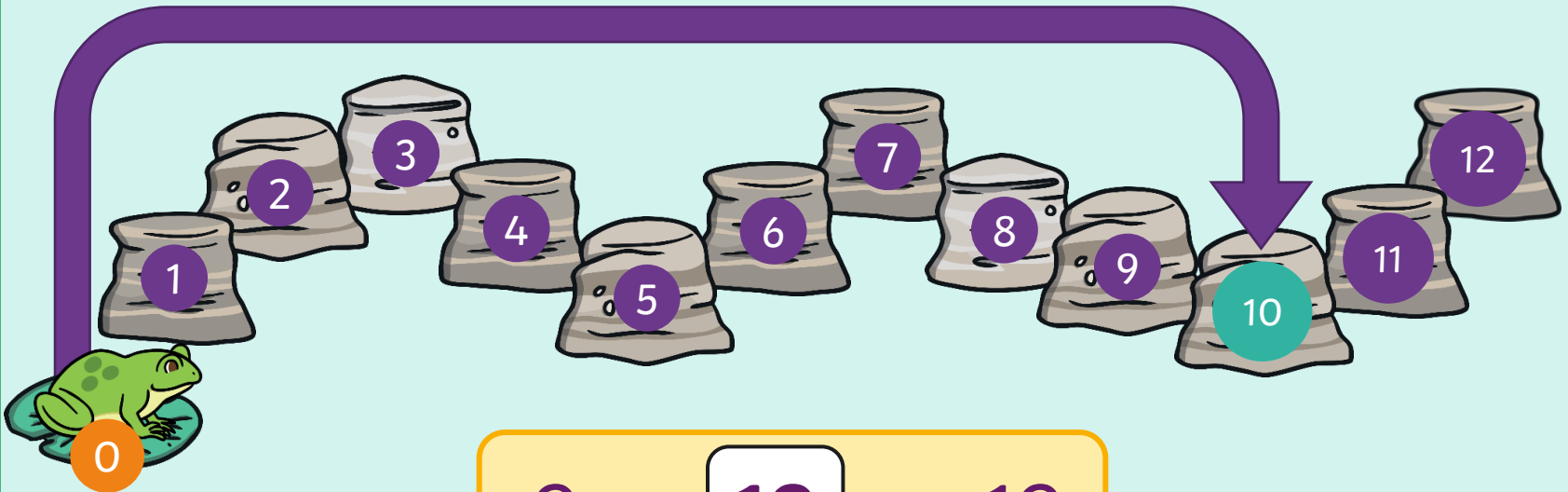
$$+ 4 = 10$$

Stepping Stones



Forwards Fred is jumping on the stepping stones.
Lots of them are wobbly! Which stone is safe?

If Fred starts on zero, how far forward will he jump to get to the safe stone?



$$0 + 10 = 10$$

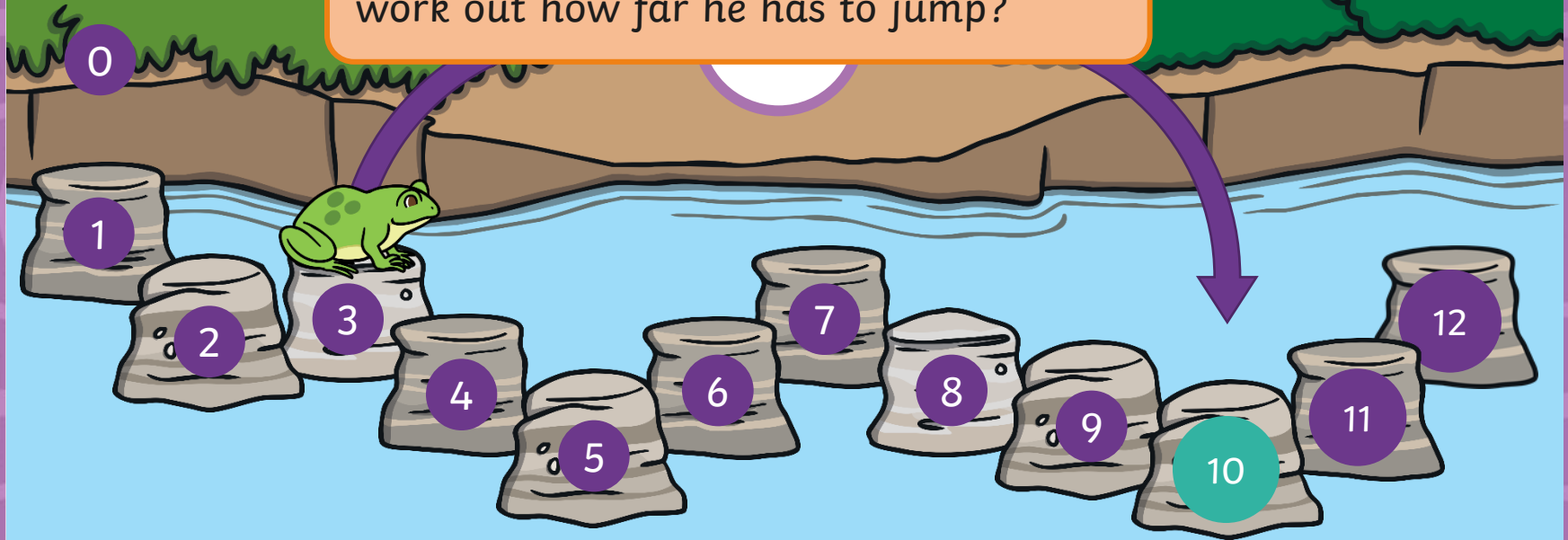
Stepping Stones

Whole Class

Which number is 5 more than 5? Starting from?

Which

Which number fact of ten will help you work out how far he has to jump?



How far forward did he jump?

$$3 + 7 = 10$$

Stepping Stones

Whole Class

Is there a number fact that will help you work out how far forward he has to jump?

river.

Which number is he starting from?

Which number will he go to?



Some of these stepping stones look wobbly too.

How far forward did he jump?

$$13 + 7 = 20$$

Stepping Stones

Whole Class

Forwards Fred keeps moving on.

Have you spotted it too?

Which number is he starting from?

Which number will he go to?

+ 7



He's started to notice a pattern with his journey.

How far forward did he jump?

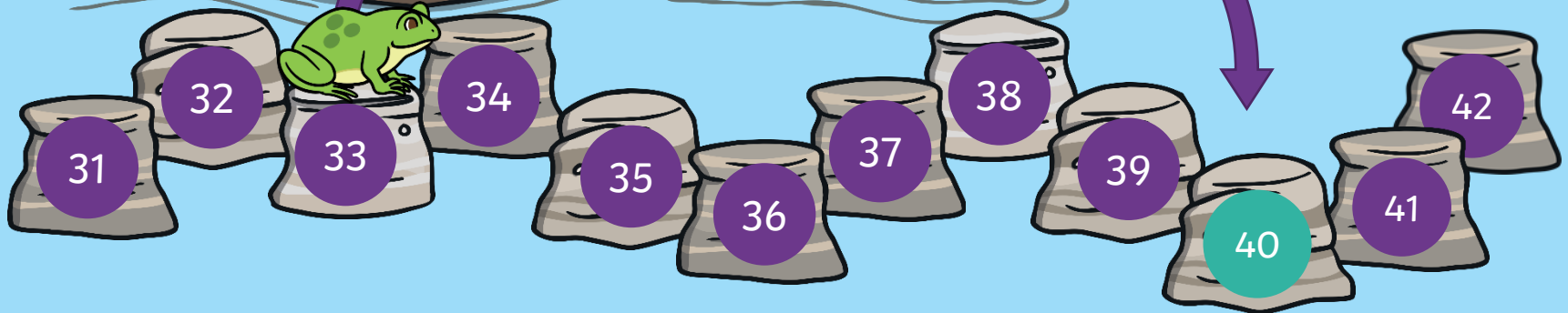
$$23 + 7 = 30$$

Stepping Stones

Whole Class

Fred starts on 33 and moves forward 7 spaces to 40.

+ 7



Let's check together.

$$33 + 7 = 40$$

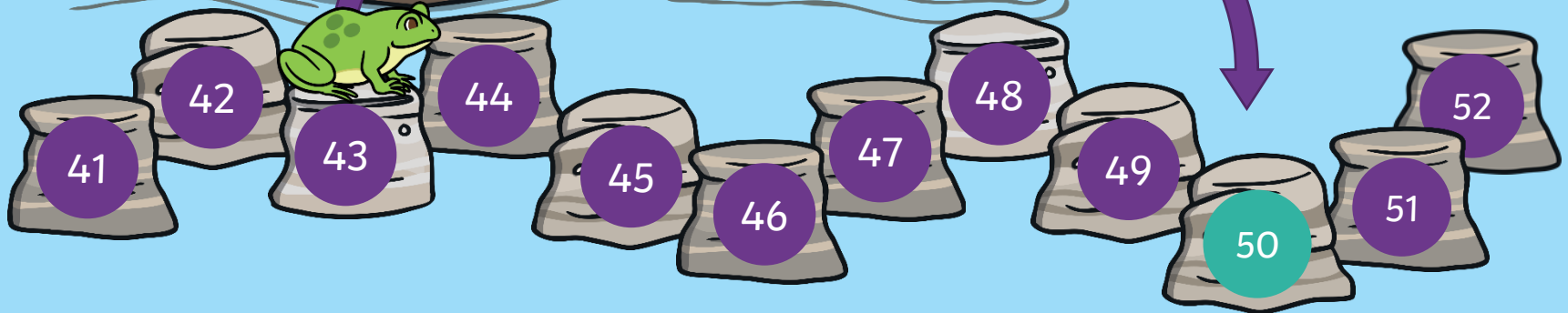
Stepping Stones

Whole Class

This is the last part of Forwards Fred's journey.

Can you explain what is going to happen?

+ 7



How do you know?

$$43 + 7 = 50$$

Stepping Stones



$$3 + 7 = 10$$

$$13 + 7 = 20$$

$$23 + 7 = 30$$

$$33 + 7 = 40$$

$$43 + 7 = 50$$

What do you notice?

Can you continue the pattern?

Can you make this pattern on a number line?



A New Adventure



Forward Fred is starting a new adventure.

Which number is he starting from?

Which number fact of ten will help you work out how far he has to jump?

Which number will he go to?



How far forward did he jump?

$$6 + 4 = 10$$

A New Adventure



For

Some of these stepping stones look wobbly too.

Which number is he starting from?

Is there a number fact that will help you work out how far forward he has to jump?

Which number will he go to?



How far forward did he jump?

$$16 + 4 = 20$$

A New Adventure



For

He's starting to notice a pattern with his journey.

Have you spotted it too?

Which

How far forward will he need to jump?

number will he go to?



How far forward did he jump?

$$26 + 4 = 30$$

A New Adventure



$$6 + 4 = 10$$

$$16 + 4 = 20$$

$$26 + 4 = 30$$



What do you notice this time?

Can you continue the pattern?

Can you make this pattern on a number line?

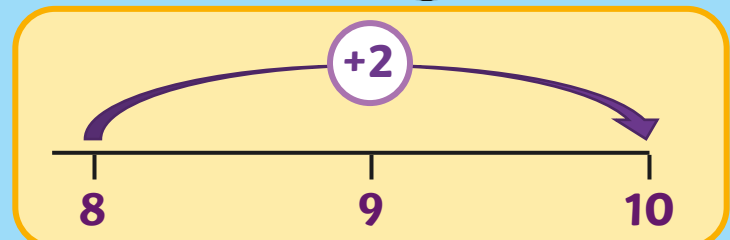
Make a Pattern



Start with a number fact of ten, then continue the pattern.



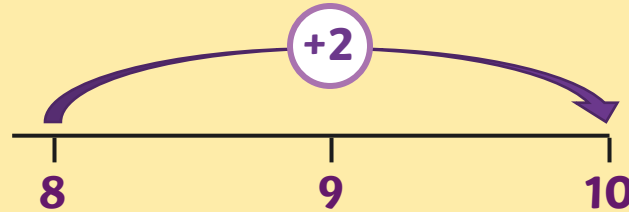
$$8 + 2 = 10$$



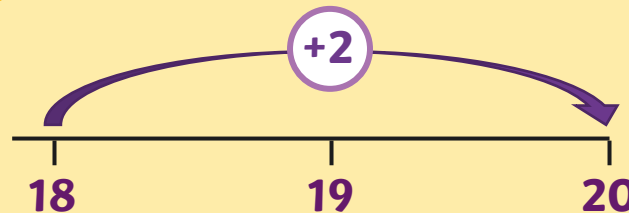
Make a Pattern

We checked our patterns together.
Check your pattern with a learning partner.

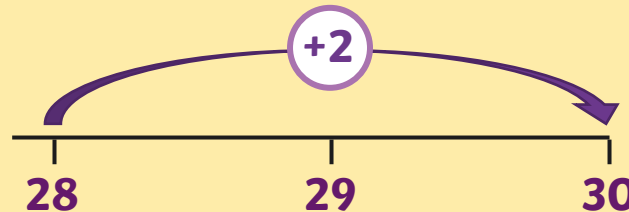
$$8 + 2 = 10$$



$$18 + 2 = 20$$



$$28 + 2 = 30$$





Jumping Further

So, he now needs to jump 3 more. He will land on 13.



0 He starts at 7. If he jumps forwards 6, where will he land? 15

So, he now needs
to jump 3 more.
He will land
on 23.

Jumping Further

Whole Class

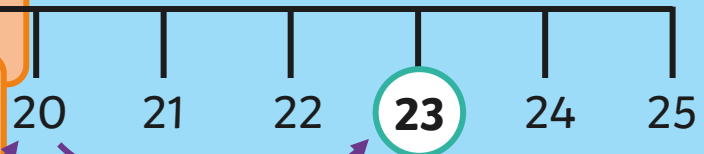
5

$$18 + 5 = 23$$



Help Fred work out $18 + 5$.

How will you partition 5?



Jumping Further

Whole Class

So he now needs
to jump 4 more.
He will land
on 34.



8

$$26 + 8 = 34$$

4

4

26

27

28

29

30

31

32

33

34

35

How will you partition 8?

How will you partition 8?

26

27

28

29

30

31

32

33

34

35

Bridging Ten



Bridging Ten Game

To add a one-digit number to a two-digit number, crossing ten.

Instructions

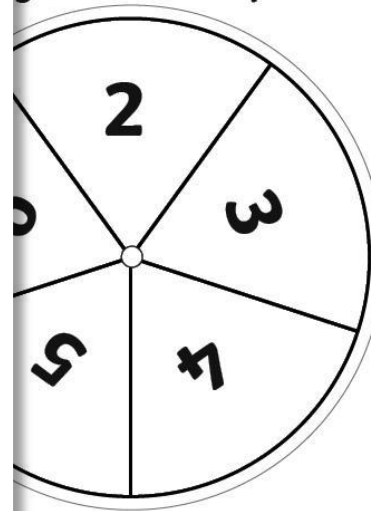
- Each player needs a number line.
- Start from the beginning of your number line.

Bridging Ten Game: Spinner

Bridging Ten Game: Number Lines

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

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



Diving into Mastery

Dive in by completing your own activity!



Add 2-Digit and 1-Digit Numbers Crossing 10

I made a number fact of ten, then added the other part.



$$\begin{array}{r} 6 + 5 = \square \\ \quad \swarrow \downarrow \\ \quad +4 \quad +1 \end{array}$$

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Can you show me how this will help solve $16 + 5$?

Draw the jumps on the number line, then write the total in the box.



$$16 + 5 = \square$$

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30



Can you continue the number pattern?

$$6 + 5 = \square$$

$$16 + 5 = \square$$

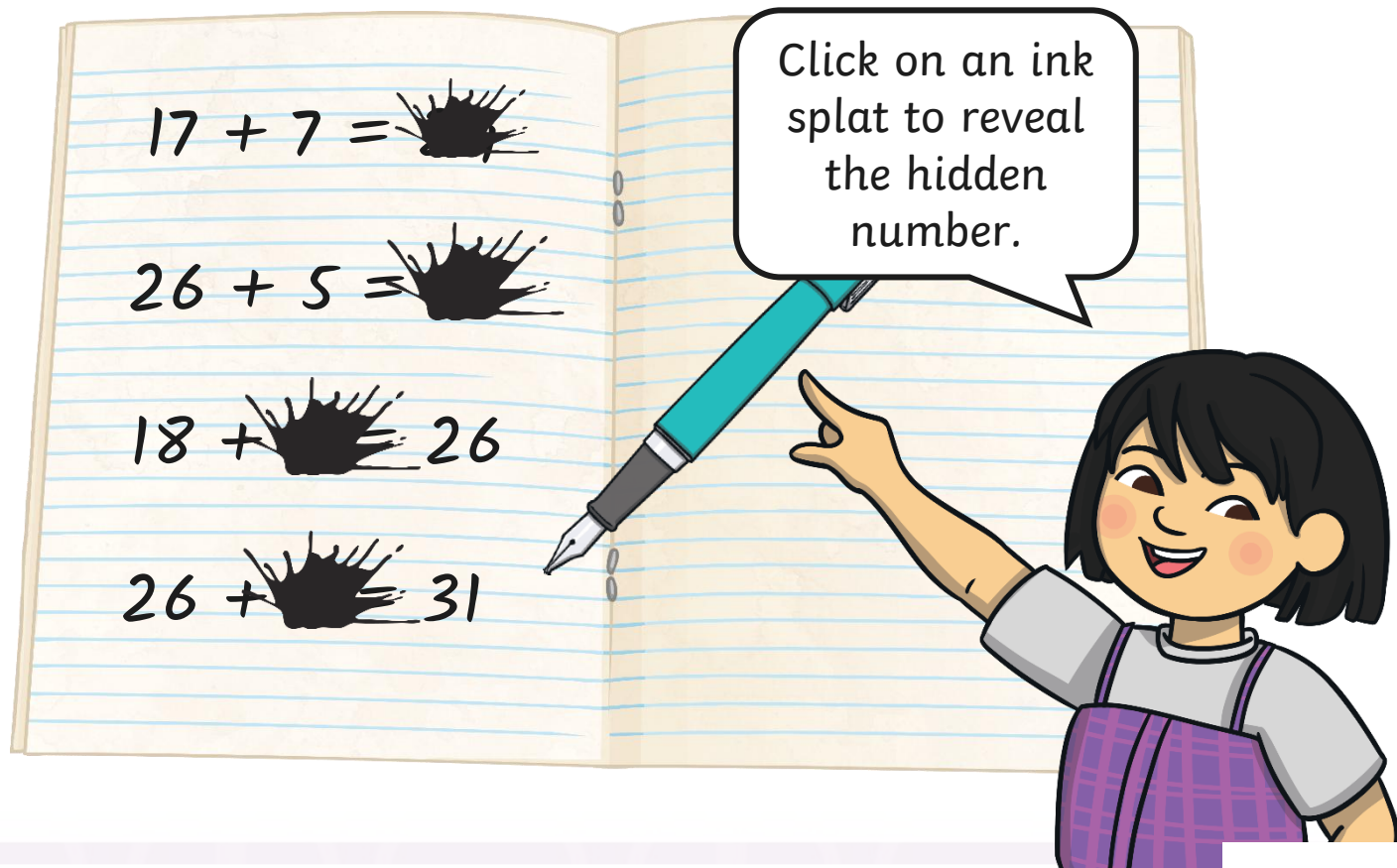
$$\square + 5 = \square$$

$$\square + 5 = \square$$

Missing Numbers



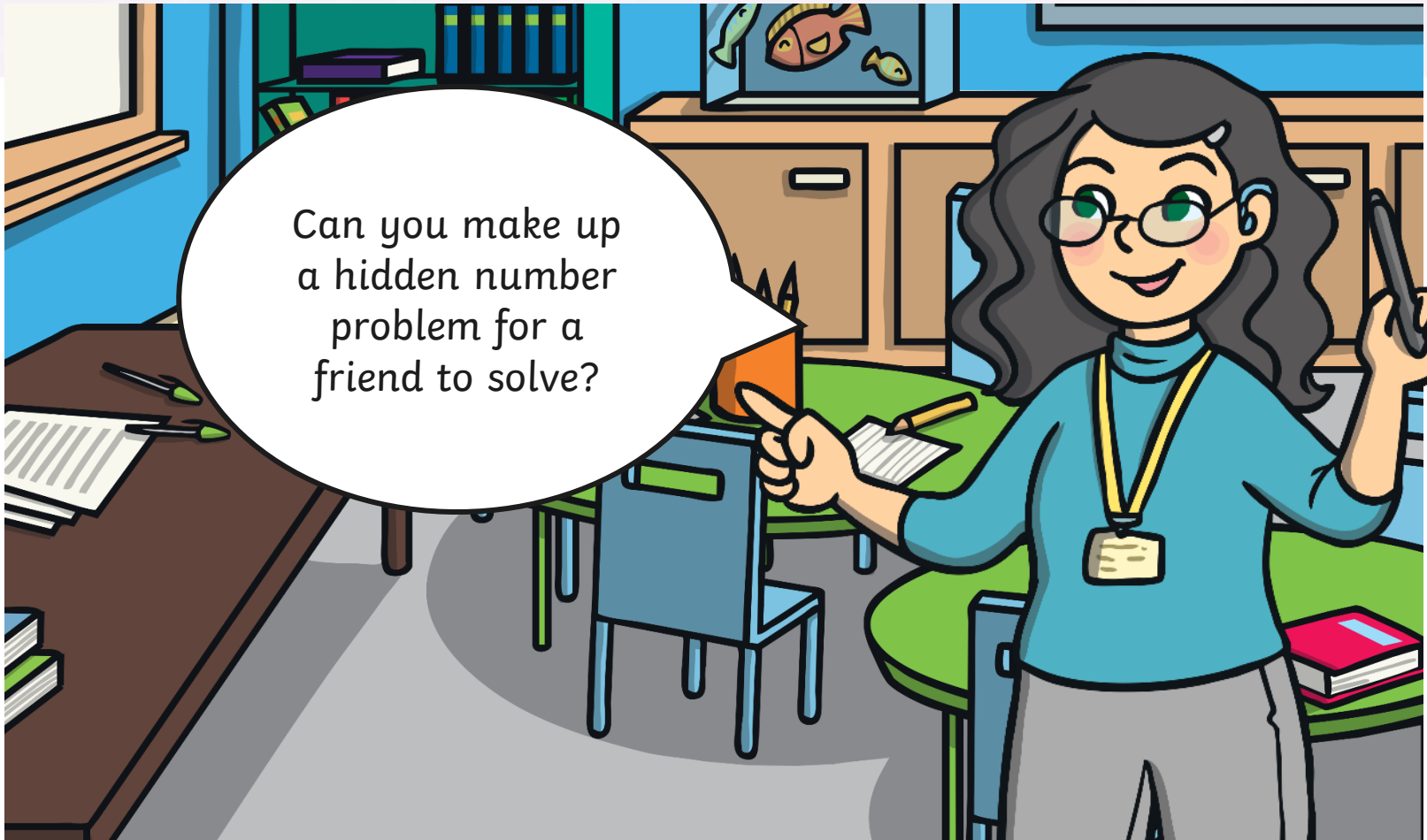
Matilda has spilt ink on her work.
Can you work out what numbers have been hidden?



Missing Numbers



Can you make up
a hidden number
problem for a
friend to solve?



Aim



- To add a 1-digit number to a 2-digit number, crossing ten.

Success Criteria

- I can use known number facts to add numbers that cross a ten boundary.
- I can use a number line to solve addition calculations that cross a ten boundary.
- I can use number patterns to solve addition calculations that cross a ten boundary.

