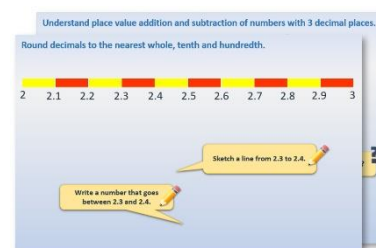


# Week 8, Day 1

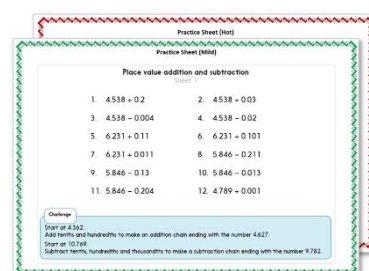
## Add using number facts (1)

Each day covers one maths topic. It should take you about 1 hour or just a little more.

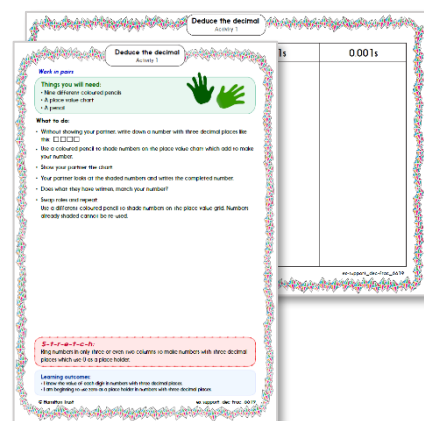
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



3. Finding it tricky? That's OK... have a go with a grown-up at **A Bit Stuck?**



4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...

## Learning Reminders

Adding single digit numbers to 2-digit numbers using number facts (addition fact patterns in 1s digits).

We already know  
this number fact:

$$3 + 5 = 8$$

This is 10 more:

$$13 + 5 = 18$$

This is 20 more:

$$23 + 5 = 28$$



What is similar  
about these  
number sentences?  
What is different?

## Learning Reminders

Adding single digit numbers to 2-digit numbers using number facts (addition fact patterns in 1s digits).

$$36 + 3 =$$

We know:

$$6 + 3 = 9$$

$$36 + 3 = 39$$



How can we answer this number sentence quickly - without having to use our fingers?  
What do we know that can help?

So, we can find 36 by adding three 10s to the answer.

## Learning Reminders

Adding single digit numbers to 2-digit numbers using number facts (addition fact patterns in 1s digits).

$6 + 3$

$16 + 3$

$26 + 3$

$36 + 3$

$46 + 3$

$56 + 3$

$66 + 3$

$76 + 3$

$86 + 3$

$96 + 3$

What is similar about these  
number sentences?  
What is different?



## Practice Sheet Mild

### Addition patterns

Example:

$4 + 5 = 9$

$14 + 5 = 19$

$3 + 5 =$

$13 + 5 =$

$6 + 3 =$

$16 + 3 =$

$2 + 5 =$

$12 + 5 =$

$4 + 3 =$

$14 + 3 =$

$2 + 7 =$

$12 + 7 =$

$4 + 2 =$

$14 + 2 =$

## Practice Sheet Hot

### Addition patterns

$5 + 3 =$

$2 + 6 =$

$4 + 4 =$

$3 + 6 =$

$5 + 4 =$

$3 + 5 =$

$7 + 2 =$

$6 + 2 =$

$15 + 3 =$

$12 + 6 =$

$14 + 4 =$

$13 + 6 =$

$15 + 4 =$

$23 + 5 =$

$17 + 2 =$

$36 + 2 =$

$25 + 3 =$

$22 + 6 =$

$24 + 4 =$

$23 + 6 =$

$35 + 4 =$

$43 + 5 =$

$67 + 2 =$

$86 + 2 =$

## Practice Sheets Answers

### Addition patterns (mild)

$4 + 5 = 9$

$3 + 5 = 8$

$6 + 3 = 9$

$2 + 5 = 7$

$4 + 3 = 7$

$2 + 7 = 9$

$4 + 2 = 6$

$14 + 5 = 19$

$13 + 5 = 18$

$16 + 3 = 19$

$12 + 5 = 17$

$14 + 3 = 17$

$12 + 7 = 19$

$14 + 2 = 16$

### Addition patterns (hot)

$5 + 3 = 8$

$2 + 6 = 8$

$4 + 4 = 8$

$3 + 6 = 9$

$5 + 4 = 9$

$3 + 5 = 8$

$7 + 2 = 9$

$6 + 2 = 8$

$15 + 3 = 18$

$12 + 6 = 18$

$14 + 4 = 18$

$13 + 6 = 19$

$15 + 4 = 19$

$23 + 5 = 28$

$17 + 2 = 19$

$36 + 2 = 38$

$25 + 3 = 28$

$22 + 6 = 28$

$24 + 4 = 28$

$23 + 6 = 29$

$35 + 4 = 39$

$43 + 5 = 48$

$67 + 2 = 69$

$86 + 2 = 88$

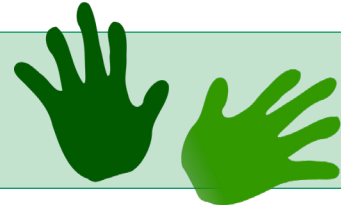
# A Bit Stuck?

## Little brother, big brother

Work in pairs, but write on your own sheet

Things you will need:

- A pencil



What to do:

- Write the answer to the little sum. Then work out the answer to the big brother sum.

$3 + 2 =$



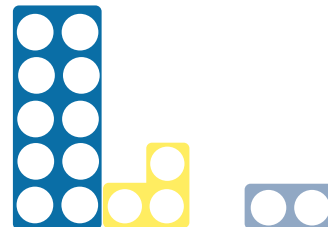
$3 + 3 =$



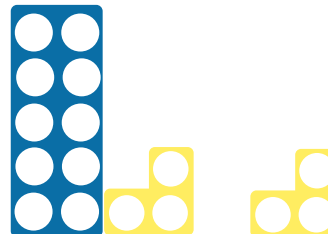
$4 + 2 =$



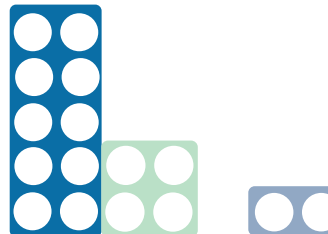
$13 + 2 =$



$13 + 3 =$



$14 + 2 =$



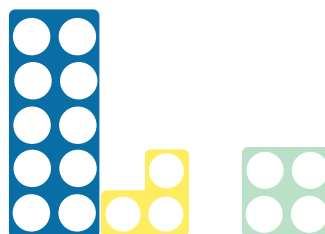
## A Bit Stuck?

Little brother, big brother

$3 + 4 = \square$



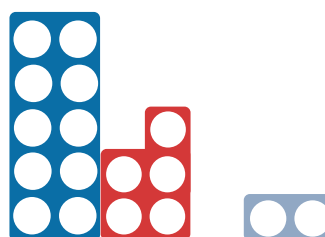
$13 + 4 = \square$



$5 + 2 = \square$



$15 + 2 = \square$



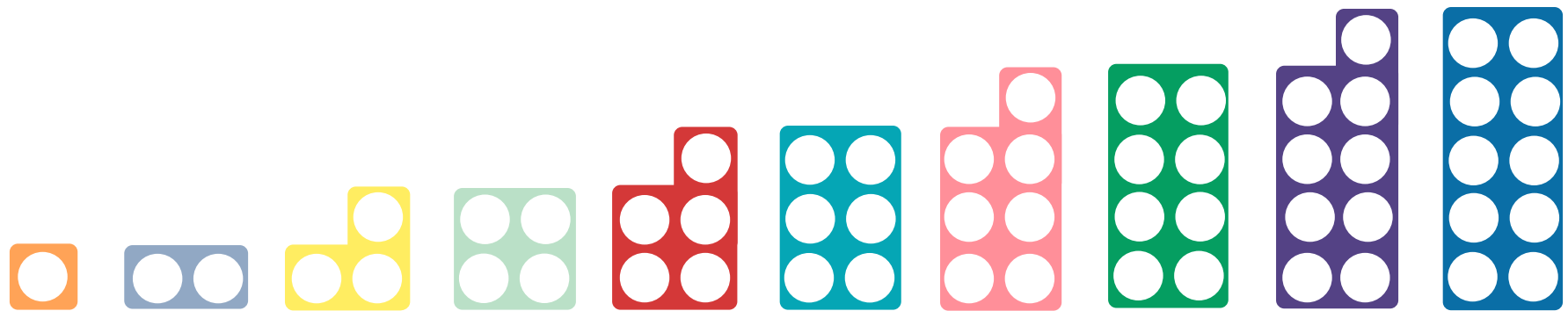
### ***S-t-r-e-t-c-h:***

Use number shapes to make your own little brother, big brother sum.

### **Learning outcomes:**

- I am beginning to use pattern and number bonds to work out related additions.

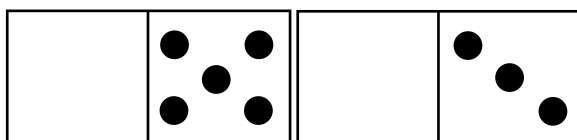
**A Bit Stuck?**  
Little brother, big brother



## Investigation

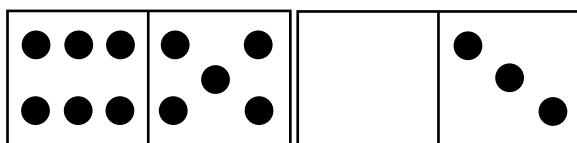
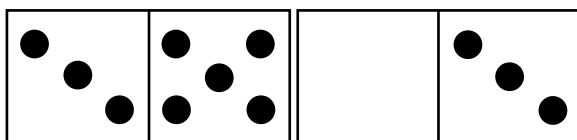
### Domino additions

1. Spread the dominoes face up on the table.
2. Take two dominoes that have blanks on one side and use these to create an addition, with the blanks on the left. Record the addition, e.g.



|               |
|---------------|
|               |
|               |
| $5 + 3 = 8$   |
| $35 + 3 = 38$ |
| $65 + 3 =$    |
| ...           |
|               |
|               |
|               |
|               |

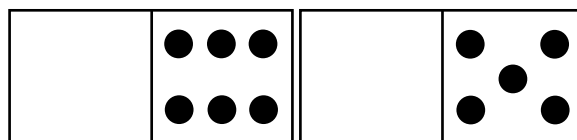
3. Find as many domino addition as you can using this fact. The second domino stays the same and the first domino must keep the same number of spots on the right, e.g. 5. Record the addition each time.



4. How many domino additions can you find in this number fact 'family'?
5. Choose a new pair of 'single-digit' dominoes and repeat.
6. Is there the same number in this domino addition family?  
Do you think there will always be this number? Why/why not?

### Challenge

Use these two dominoes to make an addition 'family'.



What do you notice about the first digit in the first number in the additions and the first digit in the answers this time?  
Are there any other pairs of dominoes which make this happen?

# Investigation Domino additions



|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
|   |   |   |   |   |   |   |
|   | • | • | • | • | • | • |
| • | • | • | • | • | • | • |
| • | • | • | • | • | • | • |
| • | • | • | • | • | • | • |
| • | • | • | • | • | • | • |
| • | • | • | • | • | • | • |
| • | • | • | • | • | • | • |