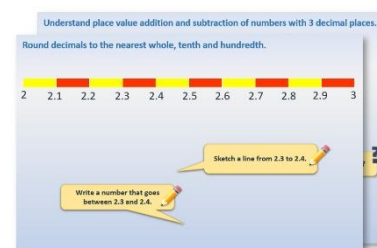


# Year 2: Week 3, Day 4

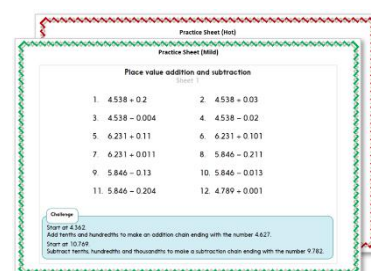
## Adding 5 numbers

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

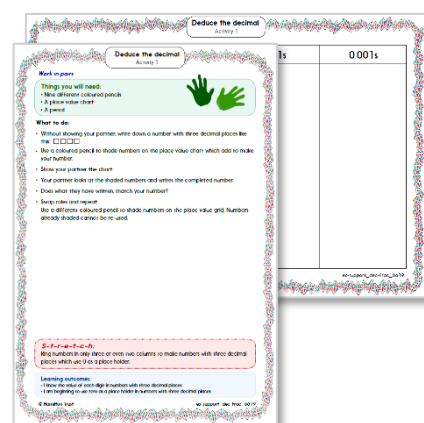
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



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

Add 5 single-digit numbers, using number facts to help.

$$6 + 5 + 3 + 5 + 4 = \square$$

Wow! That's a long number sentence! We could just add the numbers one at a time, but changing the order would make it easier.

How can we change the order to make it easier? Are there any **number facts** that can help?



$$5 + 5 + 6 + 4 + 3 = \square$$

Now we can **add the pairs that make 10...**

...and use **place value** to add 10, 10 and 3...

$$10 + 10 + 3 = 23$$

## Learning Reminders

Add 5 single-digit numbers, using number facts to help.

$$\boxed{8} + \boxed{3} + \boxed{8} + \boxed{7} + \boxed{5} = \boxed{\phantom{00}}$$

Let's try this one.  
How can we change the  
order to make it easier?  
Are there any **number  
facts** that can help?



Let's move the numbers  
around and see how it helps.

Did you spot **double 8**?

And the **pair that  
makes 10**?

$$\boxed{8} + \boxed{8} + \boxed{7} + \boxed{3} + \boxed{5} = \boxed{\phantom{00}}$$

We can use **place value to add  
16 + 10**, then **count on 5**.

$$\boxed{16} + \boxed{10} + \boxed{5} = \boxed{31}$$

## Practice Sheet Mild

### Adding using number facts

Can you spot any pairs to 10 or doubles that will help you add the numbers?

Add these numbers	Pairs to 10	Doubles	Other facts	Answer
1, 9, 3	$9 + 1 = 10$			$10 + 3 = 13$
3, 7, 4				
4, 5, 4				
6, 2, 6				
2, 5, 8				
5, 4, 9, 4, 1	$9 + 1 = 10$	$4 + 4 = 8$		$10 + 8 + 5 = 23$
3, 6, 7, 6, 3				
9, 2, 4, 8, 6				
7, 5, 7, 4, 5				
9, 3, 4, 3, 5				
8, 4, 2, 4, 1				

## Practice Sheet Hot

### Adding using number facts

Can you spot any pairs to 10 or doubles or other facts that will help you add the numbers?

Add these numbers	Pairs to 10	Doubles	Other facts	Answer
5, 4, 9, 4, 1	$9 + 1 = 10$	$4 + 4 = 8$		$10 + 8 + 5 = 23$
3, 6, 7, 6, 3				
9, 2, 4, 8, 6				
7, 5, 7, 4, 5				
9, 3, 4, 3, 5				
8, 4, 2, 4, 1				
6, 2, 3, 6, 9, 7				
4, 3, 8, 3, 6, 8				
9, 4, 5, 2, 1, 3				
4, 7, 4, 8, 9, 3,				
2, 3, 5, 9, 4, 2				
9, 1, 4, 5, 6, 9				

#### Challenge

Can you find any other ways to add your sets of numbers? Which way is the easiest? Which is the hardest?

## Practice Sheets Answers

### Adding using number facts (mild)

Add these numbers	Pairs to 10	Doubles	Other facts	Answer
1, 9, 3	$9 + 1 = 10$			$10 + 3 = 13$
3, 7, 4	$7 + 3 = 10$			$10 + 4 = 14$
4, 5, 4		$4 + 4 = 8$		$8 + 5 = 13$
6, 2, 6		$6 + 6 = 12$		$12 + 2 = 14$
2, 5, 8	$8 + 2 = 10$			$10 + 5 = 15$
5, 4, 9, 4, 1	$9 + 1 = 10$	$4 + 4 = 8$		$10 + 8 + 5 = 23$
3, 6, 7, 6, 3	$7 + 3 = 10$	$6 + 6 = 12$		$10 + 12 + 3 = 25$
9, 2, 4, 8, 6	$6 + 4 = 10$ $8 + 2 = 10$			$10 + 10 + 9 = 29$
7, 5, 7, 4, 5		$5 + 5 = 10$ $7 + 7 = 14$		$10 + 14 + 4 = 28$
9, 3, 4, 3, 5		$3 + 3 = 6$	$5 + 4 = 9$	$6 + 9 + 9 = 24$
8, 4, 2, 4, 1	$8 + 2 = 10$	$4 + 4 = 8$		$10 + 8 + 1 = 19$

## Practice Sheet Answers Continued

### Adding using number facts (hot)

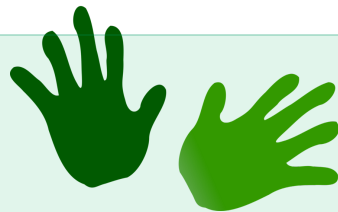
Add these numbers	Pairs to 10	Doubles	Other facts	Answer
5, 4, 9, 4, 1	$9 + 1 = 10$	$4 + 4 = 8$		$10 + 8 + 5 = 23$
3, 6, 7, 6, 3	$7 + 3 = 10$	$6 + 6 = 12$		$10 + 12 + 3 = 25$
9, 2, 4, 8, 6	$8 + 2 = 10$ $6 + 4 = 10$			$10 + 10 + 9 = 29$
7, 5, 7, 4, 5		$5 + 5 = 10$ $7 + 7 = 14$		$14 + 10 + 4 = 28$
9, 3, 4, 3, 5		$3 + 3 = 6$	$5 + 4 = 9$ $9 + 9 = 18$	$18 + 6 = 24$
8, 4, 2, 4, 1	$8 + 2 = 10$	$4 + 4 = 8$		$10 + 8 + 1 = 19$
6, 2, 3, 6, 9, 7	$7 + 3 = 10$	$6 + 6 = 12$	$9 + 2 = 11$	$12 + 11 + 10 = 33$
4, 3, 8, 3, 6, 8	$6 + 4 = 10$	$3 + 3 = 6$ $8 + 8 = 16$		$16 + 10 + 6 = 32$
9, 4, 5, 2, 1, 3	$9 + 1 = 10$		$5 + 2 + 3 = 10$	$10 + 10 + 4 = 24$
4, 7, 4, 8, 9, 3,	$7 + 3 = 10$	$4 + 4 = 8$	$8 + 8 = 16$	$16 + 10 + 9 = 35$
2, 3, 5, 9, 4, 2		$2 + 2 = 4$	$5 + 4 = 9$ $9 + 9 = 18$	$18 + 4 + 3 = 25$
9, 1, 4, 5, 6, 9	$9 + 1 = 10$		$5 + 4 = 9$ $9 + 9 = 18$	$18 + 10 + 6 = 34$

## A Bit Stuck? Spot the 10

*Work in pairs*

### Things you will need:

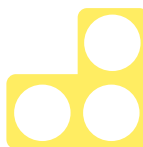
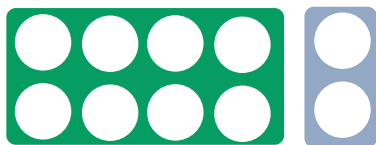
- A set of number shapes, e.g. Numicon®
- A set of sum cards
- A pencil



### What to do:

- Choose a sum card.
- Find the number shapes to match.
- Which two shapes go together to make 10?
- Now add on the other number.
- Write the answer to the sum.
- Do the same for as many sums as you can.

$$8 + 2 + 3 = \square$$



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

Use the number shapes to help you to work out  $6 + 3 + 4 + 1$ .

Can you see a pair to 10?

Now work out  $5 + 3 + 2 + 7$ .

### Learning outcomes:

- I can add three single-digit numbers, spotting a pair with a total of 10.
- I am beginning to add four single-digit numbers, spotting a pair with a total of 10.



**A Bit Stuck?**  
**Spot the 10**

$$8 + 3 + 2 = \square$$

$$3 + 2 + 7 = \square$$

$$4 + 5 + 5 = \square$$

$$1 + 2 + 8 = \square$$

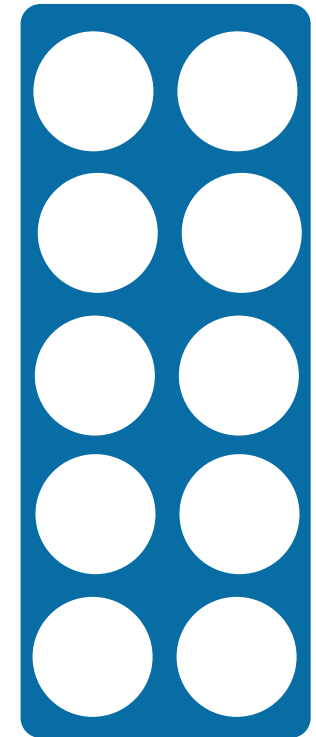
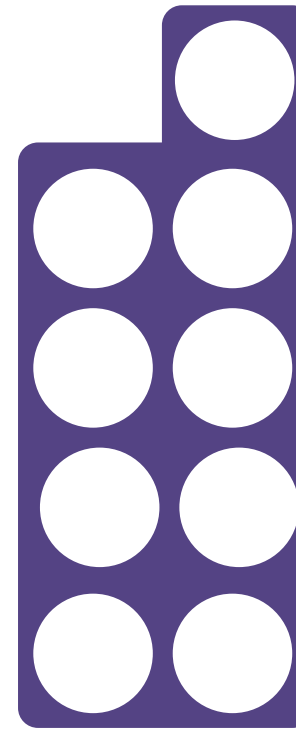
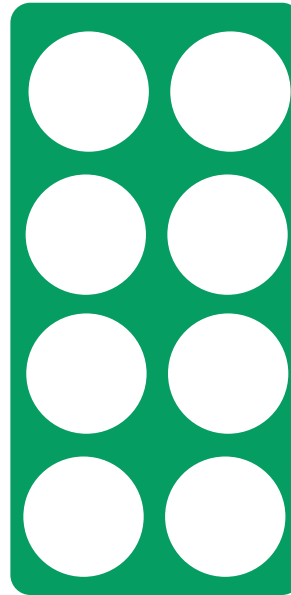
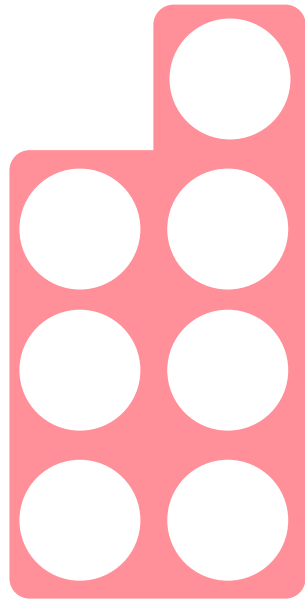
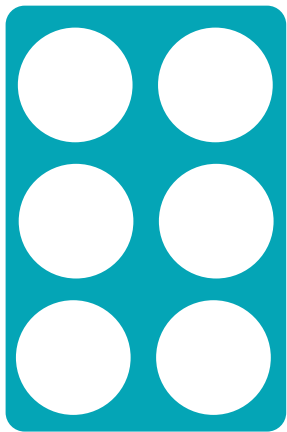
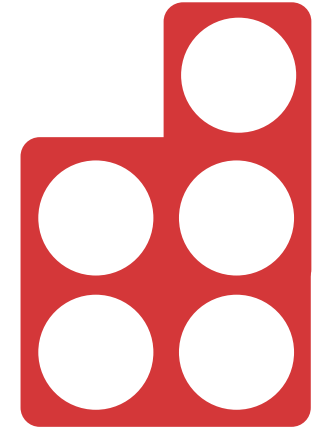
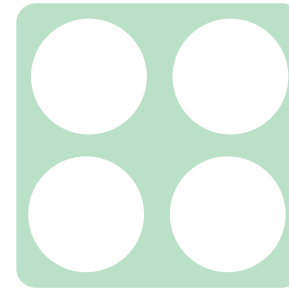
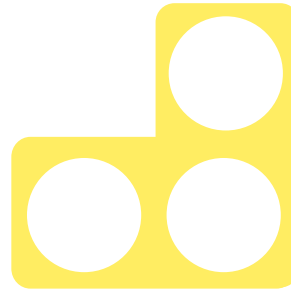
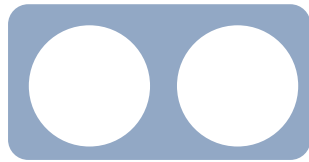
$$6 + 4 + 5 = \square$$

$$4 + 9 + 6 = \square$$

$$1 + 7 + 9 = \square$$

$$7 + 3 + 8 = \square$$

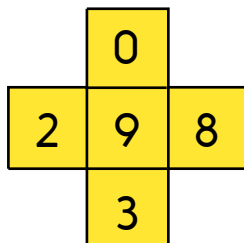
**A Bit Stuck?**  
**Spot the 10**



## Investigation

### Cross Additions

- Find the total of all five numbers in this cross. Can you see a pair to 10 which will help you to find the total more easily?



- Use any five digit cards from 0 to 9 to make your own cross and find the total. Think about the easiest way to add them.
- What is the smallest total that you can find? And the biggest total?
- Now for the real challenge!  
Use all the digit cards 0 to 9, once each to make two crosses so that one cross has a total which is 1 more than the other.

Can you find a different way to make two crosses with one total 1 more than the other?

