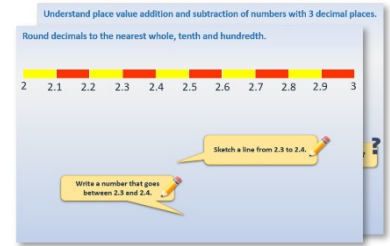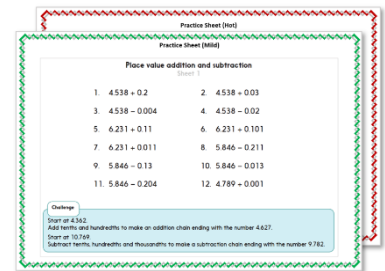# Year 2: Week 1, Day 5
Adding 2-digit numbers

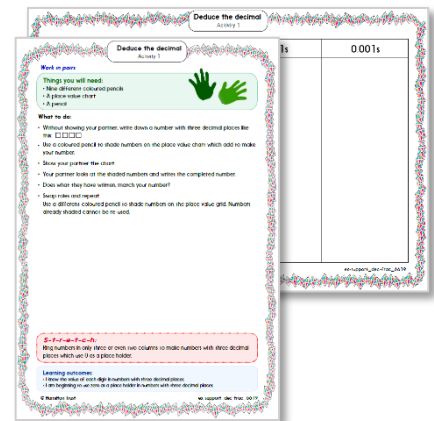**Each day covers one maths topic. It should take you about 1 hour or just a little more.**

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. Have I mastered the topic? A few questions to **Check your understanding**. Fold the page to hide the answers!
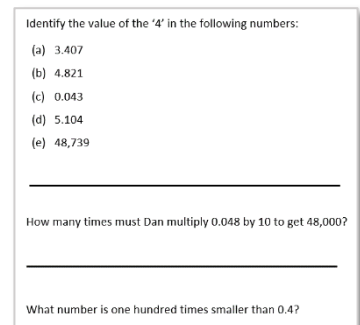
Learning Reminders

Add pairs of 2-digit numbers by partitioning.

We are going to use **partitioning** add 34 and 23.

Make 34 and 23 with **place value cards.**

Partition each number.

3 4   2 3

Re-order the numbers. Can you see how?

3 0   2 0   4   3

Add the 10s then the 1s.

5 0   7

Re-combine the numbers.

34 + 23 = 57

We can record this as:

$34 + 23 = 30 + 20 + 4 + 3$

$= 50 + 7$

$= 57$

Learning Reminders

Add pairs of 2-digit numbers by partitioning.

Let's try 46 + 25.

What shall we do first?

| 4 | 6 | | 2 | 5 |

What shall we do next?

| 4 | 0 | | 2 | 0 | | 6 | | 5 |

What shall we do next?

| 6 | 0 | | 1 | 1 |

Add the 60 and 10, then the 1.

46 + 25 = 71

We can record that as:

$$46 + 25 = 40 + 20 + 6 + 5$$
$$= 60 + 11$$
$$= 70 + 1$$
$$= 71$$

Adding 2-digit numbers using partitioning

Add each pair of two 2-digit numbers using partitioning.
Record your jottings.

14 + 35	37 + 22
33 + 54	63 + 26
28 + 21	71 + 18
42 + 37	55 + 44
25 + 53	16 + 34

Challenge

Make up some calculations of your own, keeping the answers under 50.
How will you make sure the answer stays under fifty?

Practice Sheet Hot
Adding 2-digit numbers using partitioning

Add each pair of two 2-digit numbers using partitioning.
Record your jottings.

63 + 26	46 + 25
71 + 18	27 + 34
55 + 44	48 + 46
16 + 34	52 + 29
53 + 17	83 + 17

Challenge

Make up some calculations of your own, keeping the answers under 100.
How will you make sure the answer stays under a hundred?

Practice Sheets Answers

Adding 2-digit numbers using partitioning (mild)

14 + 35 = 49
33 + 54 = 87
28 + 21 = 49
42 + 37 = 79
25 + 53 = 78
37 + 22 = 59
63 + 26 = 89
71 + 18 = 89
55 + 44 = 99
16 + 34 = 50

Adding 2-digit numbers using partitioning (hot)

63 + 26 = 89
71 + 18 = 89
55 + 44 = 99
16 + 34 = 50
53 + 17 = 70
46 + 25 = 71
27 + 34 = 61
48 + 46 = 94
52 + 29 = 81
83 + 17 = 100

A Bit Stuck?
Six Beads

Practice recognising the place value of each digit in a two-digit number.

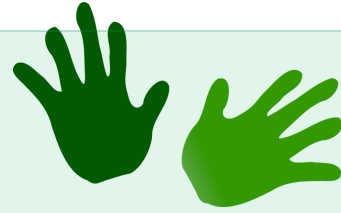Click on the link: https://nrich.maths.org/152

Work in pairs

Things you will need:
• A 1-100 grid
• A pencil

What to do:

• Choose a number from the top row and ring it.

• Take it in turns to add 11, drawing the 'step'.

• Both record the addition.

• Keep adding 11 until you reach the end of a row.

• How many steps were in your staircase?

• Choose another square to start on using a different colour. Repeat the activity.

$$4 + 11 = 15$$
$$15 + 11 =$$

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

S-t-r-e-t-c-h:
Choose two numbers less than 90 and add 12 to them.

Learning outcomes:
• I can add 11 to numbers less than 90 on a 1-100 grid.
• I am beginning to add 12 to numbers less than 90.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	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
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Fill in the missing numbers:

65 + 24

add the 10s: 60 + ☐ = ☐

add the 1s: ☐ + 4 = ☐

so, 65 + 24 = ☐

46 + 35

☐ + 30 = ☐

6 + ☐ = ☐

so, 46 + 35 = ☐

Fold here to hide answers:

Check your understanding
Answers

Fill in the missing numbers:

65 + 24

add the 10s: 60 + 20 = 80

add the 1s: 5 + 4 = 9

so, 65 + 24 = 89

46 + 35

40 + 30 = 70

6 + 5 = 11

so, 46 + 35 = 81