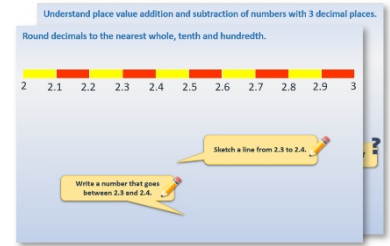


Year 2: Week 1, Day 5

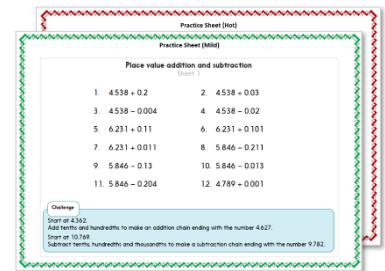
Adding 2-digit numbers

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

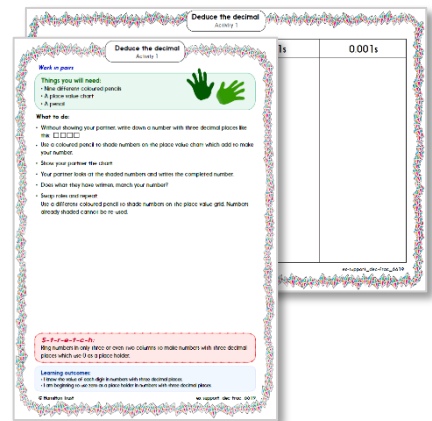
- Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



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



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



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

Identify the value of the '4' in the following numbers:

(a) 3.407
 (b) 4.821
 (c) 0.043
 (d) 5.104
 (e) 48,739

How many times must Dan multiply 0.048 by 10 to get 48,000?

What number is one hundred times smaller than 0.4?

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.



Re-order the numbers.
Can you see how?



Add the 10s then the 1s.



Re-combine the numbers.

$$34 + 23 = 57$$

We can record this as:

$$\begin{aligned} 34 + 23 &= 30 + 20 + 4 + 3 \\ &= 50 + 7 \\ &= 57 \end{aligned}$$

Learning Reminders

Add pairs of 2-digit numbers by partitioning.

Let's try $46 + 25$.

What shall we do first?



What shall we do next?



What shall we do next?



Add the 60 and 10, then the 1.

$$46 + 25 = 71$$

We can record that as:

$$\begin{aligned} 46 + 25 &= 40 + 20 + 6 + 5 \\ &= 60 + 11 \\ &= 70 + 1 \\ &= 71 \end{aligned}$$

Practice Sheet Mild

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.

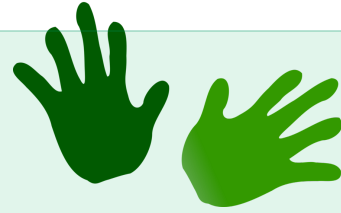
Click on the link: <https://nrich.maths.org/152>

A Bit Stuck? Down the stairs

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.



A Bit Stuck?
Down the stairs

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

Check your understanding

Questions

Fill in the missing numbers:

65 + 24

add the 10s: $60 + \square = \square$

add the 1s: $\square + 4 = \square$

so, $65 + 24 = \square$

46 + 35

$\square + 30 = \square$

$6 + \square = \square$

so, $46 + 35 = \square$

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, $46 + 35 = 81$