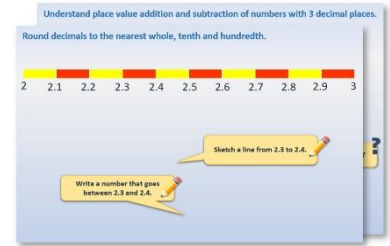


Year 1: Week 4, Day 2

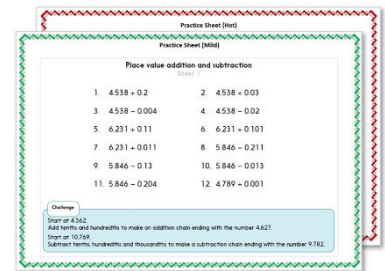
Add 11 to 2-digit numbers

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

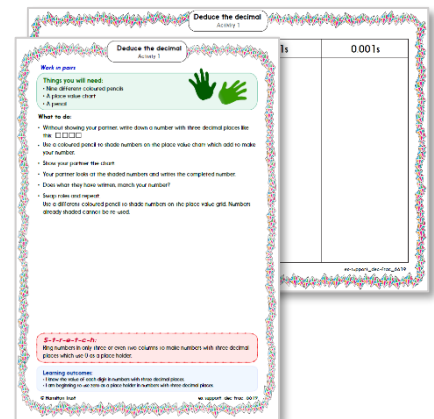
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



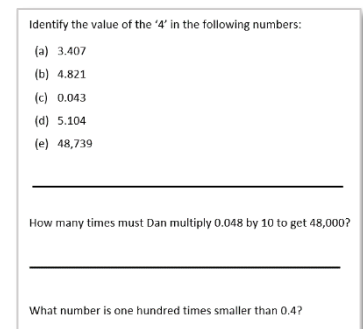
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



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

Adding 11 to a 2-digit number.

1-100 number grid

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

Instead of adding 10
we are going to add
11...1 more than 10!

Let's *start* by
adding 10. What
is 53 add 10?

But we haven't
finished yet!
We need to add 1
more.

Fly!



$$53 + 11 = 64$$

Learning Reminders

Adding 11 to a 2-digit number.

1-100 number grid

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

We need to move
Fly to the
beginning of the
next row!



This time let's try
adding 11 to 30.

What is 30
add 10? ?

We are at the end of
the row so what
should we do to add
1 more? ?

$$30 + 11 = 41$$

Practice Sheet Mild

Part A

Sally has some cakes to sell on the cake stall but she has been told to increase the price of each cake by 11p.
Can you help her change her signs?

23p



30p



45p



42p



20p



26p



60p








67p



Practice Sheet Hot






Part A

Sally has some cakes to sell on the cake stall but she has been told to increase the price of each cake by 11p.
Can you help her change her signs?

37p	48p	73p	65p	80p
				
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Part B

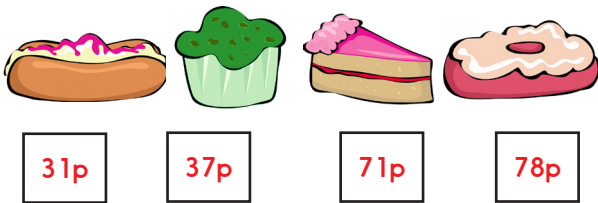
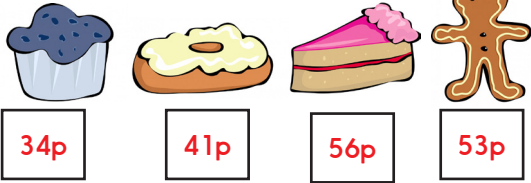
What was the original price of these cakes?

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
				
37p	51p	82p	47p	70p

Practice Sheet Answers

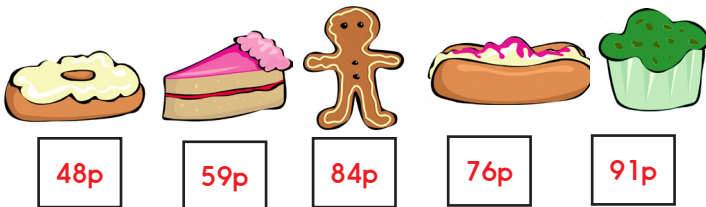
Adding 11 (mild)

Sally's new cake signs for 11p price increase:

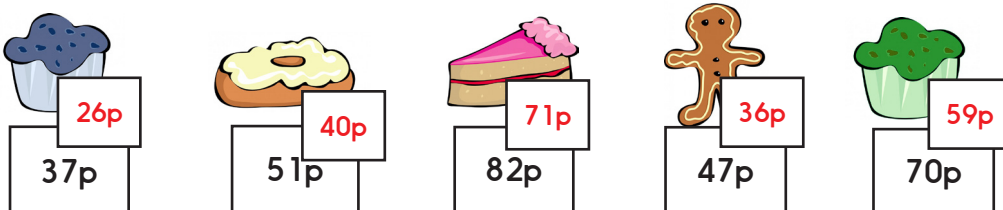


Adding 11 (hot)

Sally's new cake signs for 11p price increase:



Original cake prices:





Practice Sheets
0-100 grid

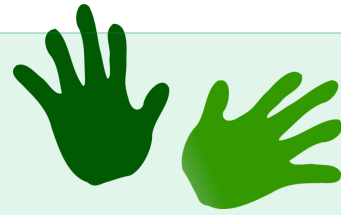
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

A Bit Stuck? More spider counting

Work in pairs

Things you will need:

- Spider's counting strips
- A pencil



What to do:

- Choose one of Spider's counting strips.
- Write the missing numbers.
- Fill in as many strips as you can.



2

12

22

32

42

62

72

82



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

Use Spider on the grid to work out the answers to these additions.



$25 + 10 = \square$

$53 + 10 = \square$

Learning outcomes:

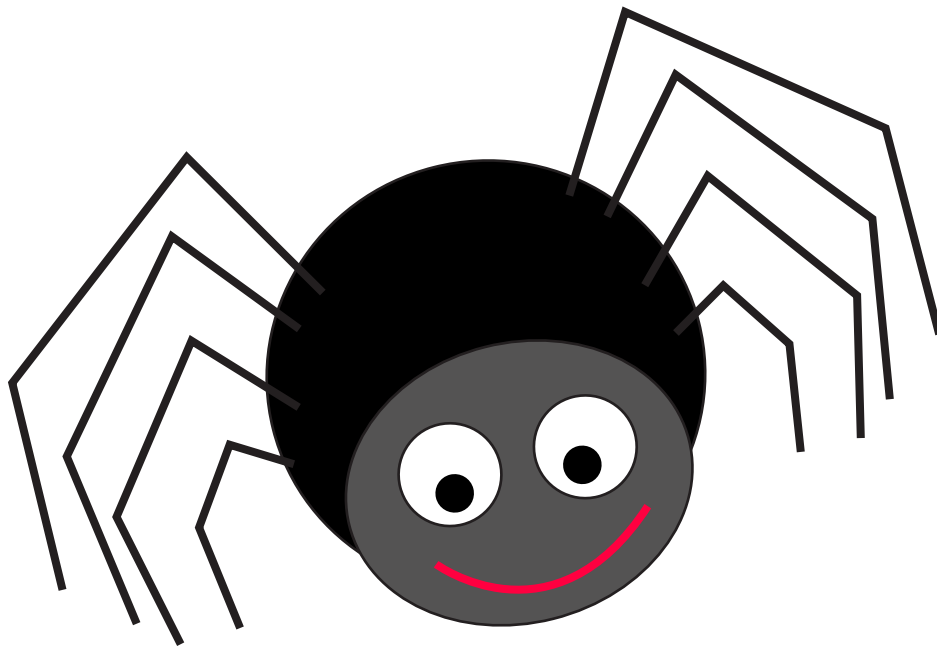
- I can count on in 10s from a single-digit number.
- I am beginning to use Spider to add 10 to 2-digit numbers.

A Bit Stuck?
More spider counting



3	9	6	10		
13	19	16	20	14	11
23	29	26	30	24	21
33	39	36	40	34	31
43	49	46		44	41
53		56	60	54	51
63	69		70		61
73	79		80	74	
	89	86		84	81
		96	100	94	91

More spider counting



Check your understanding

Questions

Complete each sentence.

$42 + 11 = \square$

$\square + 11 = 86$

$66 + \square = 77$

Add 11 to each number:

83

24

18

46

True or false?

- Adding 11 to a 2-digit number with both digits the same (like 22 or 33) always gives another 2-digit number with both digits the same.
- Adding 10 to a number where the first digit is 1 less than the second digit (like 12 or 23) always gives an answer with 2 digits the same.

Fold here to hide answers

Check your understanding

Answers

$42 + 11 = 53$

$75 + 11 = 86$

$66 + 11 = 77$

Some children may find the questions with the missing number on the left hand side (what has to be added to 37 to equal 47) trickier.

Add 11 to each number:

83 94

24 35

18 29

46 57

Mistakes may arise if children count on in 1s rather than adding 10 then 1 ('Spider then fly').

True or false?

- Adding 11 to a 2-digit number with both digits the same (like 22 or 33) always gives another 2-digit number with both digits the same. **False.** It works for *most*, e.g. $22 + 11 = 33$; $33 + 11 = 44$, but not for $79 + 11 (=90)$.
- Adding 10 to a 2-digit number where the first digit is 1 less than the second digit (like 12 or 23) always gives an answer with 2 digits the same. **True**, e.g. $12 + 10 = 22$; $89 + 10 = 99$.