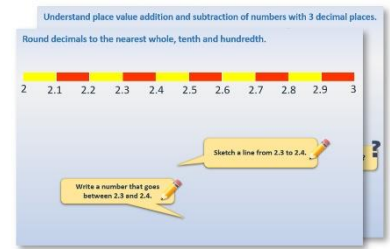


Year 1: Week 5, Day 1

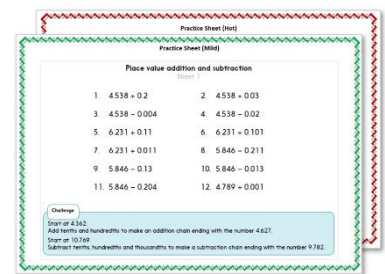
Add and subtract 11

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

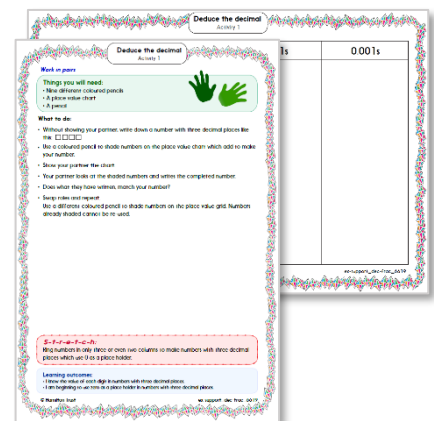
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



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 11.

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

Let's recap adding and subtracting 11 using Spider and Fly on a number grid.

$$52 + 11 =$$

Remember that 11 is 1 more than 10. Let's first add 10.

What is 52 add 10? ?

We need to add 1 more. Let's use Fly to add across the grid.

$$52 + 11 = 63$$

Learning Reminders

Subtracting 11.

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

This time let's **subtract 11**.
Let's try $78 - 11$.

We start by subtracting 10.
What is $78 - 10$?

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

Subtracting 11.

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

Where will Fly land if she subtracts another one?

So, what is $78 - 11$?

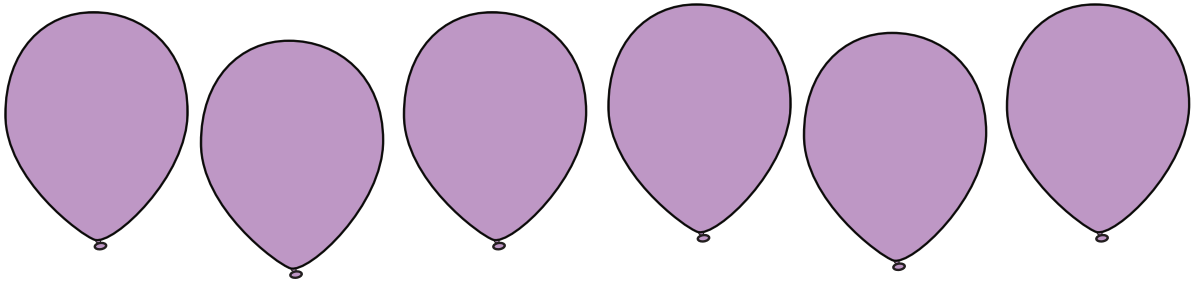
$$78 - 11 = 67$$

Practice Sheet Mild

Adding and subtracting 11

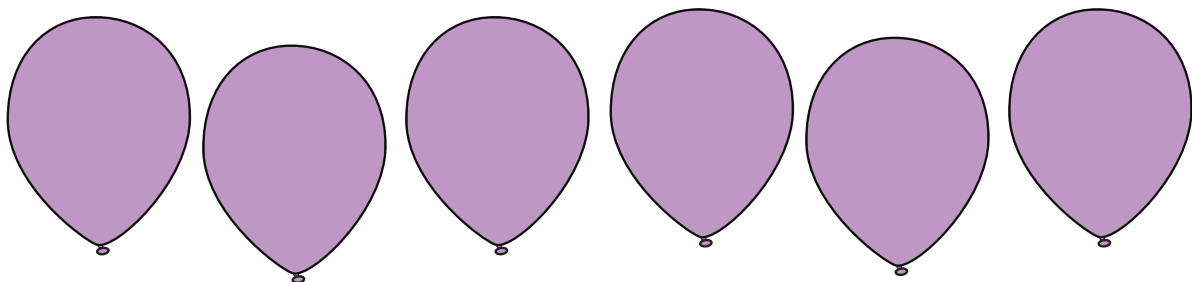
Part A

The balloon seller has written ages on the birthday balloons but they are wrong! Each balloon should be 11 years more!
Can you help her write the new ages?



Part B

The balloon seller has made another mistake!
Each balloon should be 11 years less!
Can you help her write the new ages?



Practice Sheet Hot

Adding and subtracting 11

Can you complete ALL the number sentences on the stepping stones to make it to the other side?

$45 + 11 =$

$21 - 11 =$

$23 + 11 =$

$67 + 11 =$

$40 + 11 =$

$59 + 11 =$

$71 - 11 =$

$99 - 11 =$

$89 + 11 =$

$41 - 11 =$



Practice Sheet

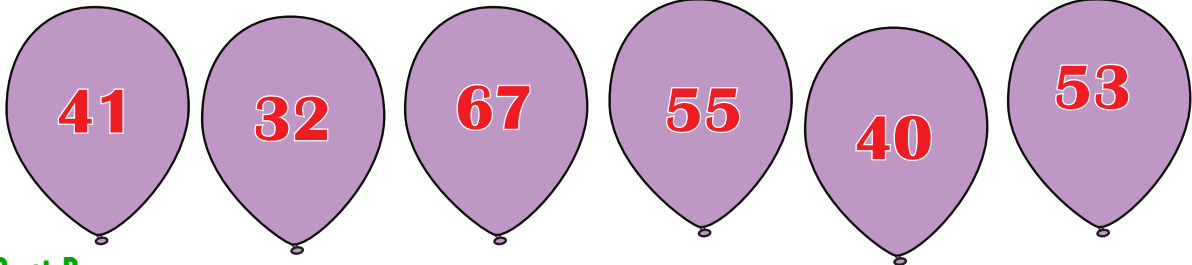
1-100 grid

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

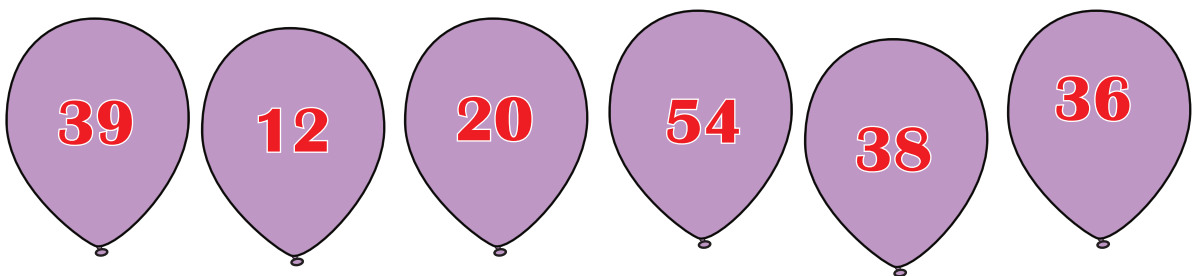
Practice Sheets Answers

Adding and subtracting 11 (mild)

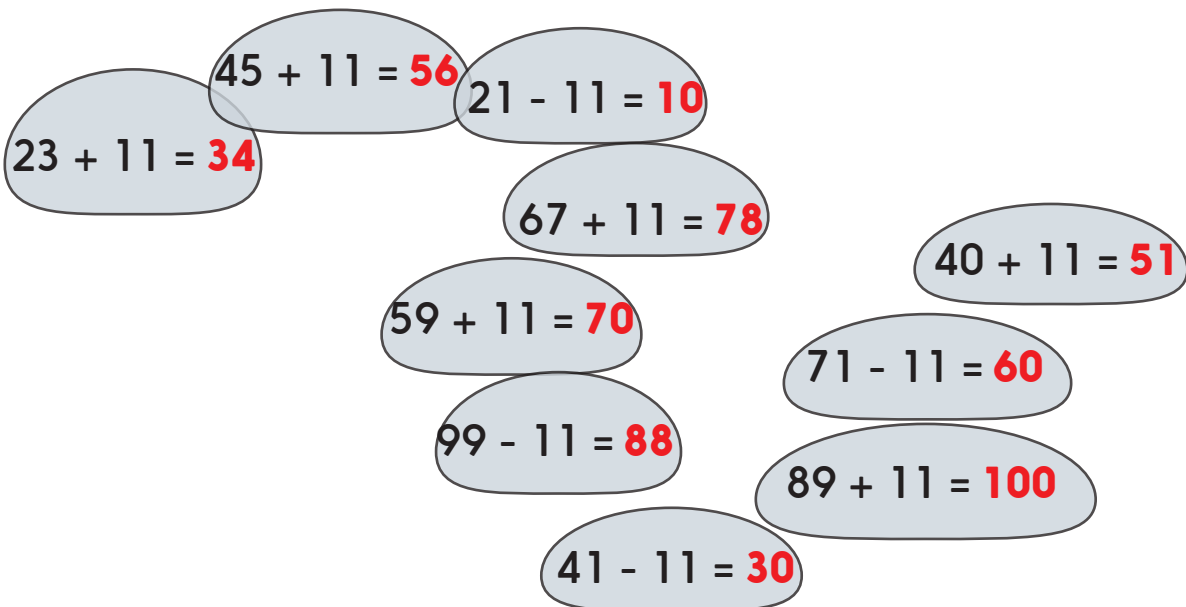
Part A



Part B



Adding and subtracting 11 (hot)

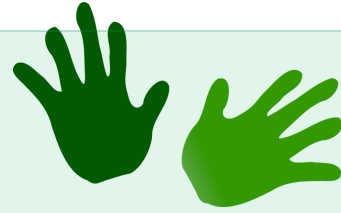


A Bit Stuck? Spider's work out

Work in pairs

Things you will need:

- A pencil
- A coin with a sticker with +10 written on one side, and a sticker with -10 on the other side



What to do:

- One person puts Spider on 45 on the grid.
- The other person flips the coin.
 - If it shows +10, move Spider down a square.
 - If it shows -10, move up a square.
- Write the number sentence.
- Can Spider reach the top or bottom row?

<input type="radio"/>	
<input type="radio"/>	
<input type="radio"/>	$45 + 10 = 55$
<input type="radio"/>	$55 + 10 = 65$
<input type="radio"/>	$65 - 10 =$
<input type="radio"/>	
<input type="radio"/>	
<input type="radio"/>	
<input type="radio"/>	

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

Can you work out $36 + 10$ and $72 - 10$ without using the 1-100 grid?
Check your answers on the grid.

Learning outcomes:

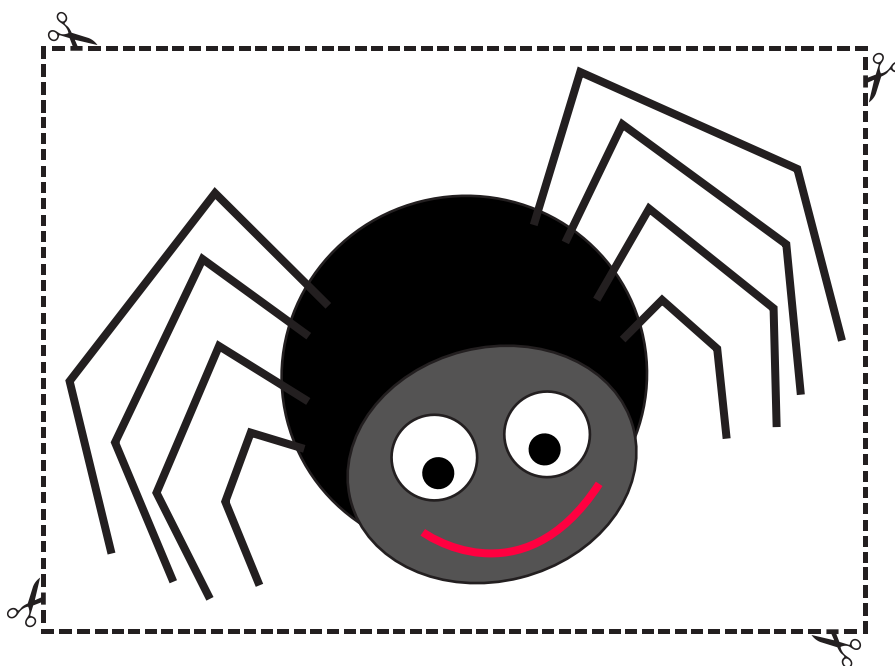
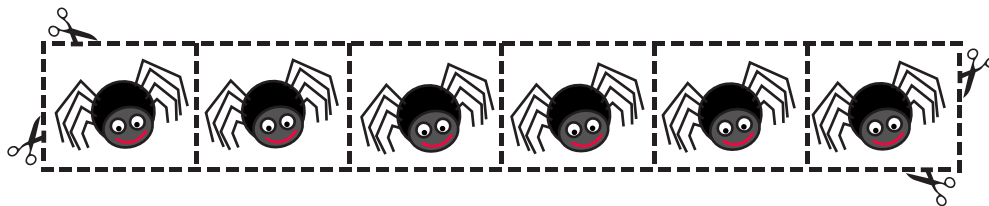
- I can add and subtract 10 using a 1-100 grid.
- I am beginning to add and subtract 10 without a 1-100 grid.



A Bit Stuck?
Spider's work out

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?
Spider's work out



Investigation

Stop me if you can!

Play with a partner.

You will need a 1-100 grid between you.

1. You need a coloured crayon each in a different colour from your partner!
2. Take turns to play
3. Choose a number on the grid. Colour it. Add 10 then add 1 and colour the answer.
4. Go back to your original number. Subtract 10 and subtract 1 and colour the answer.
5. Now let your partner have a turn

YOUR AIM is to create a long diagonal line in your colour. How long a line can you make?

Can you stop your partner making a long line by choosing a number which gets in their way?

HINT: If you only ever choose numbers to stop your partner, you will never make a long line of your own!

Think about:

What number should you choose to start with in order make the longest diagonal line possible?

1	2	3	4	5
11	12	13	14	15
21	22	23	24	25
31	32	33	34	35
41	42	43	44	45

Stop me if you can!

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

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