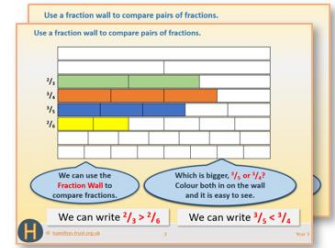


# Week 11, Day 2

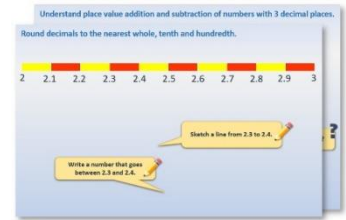
## Add and subtract near multiples of 10

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

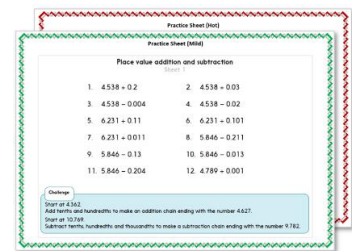
1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.



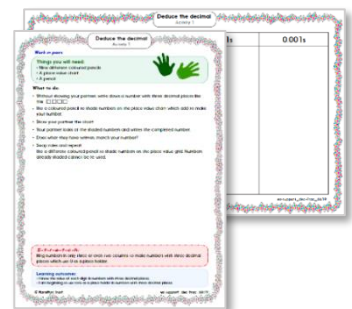
OR start by carefully reading through the **Learning Reminders**.



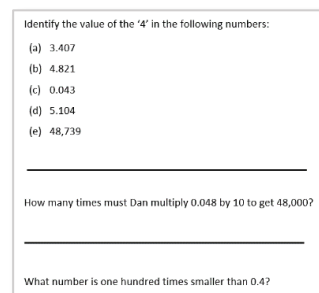
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



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 multiples of 10.

301	302	303	304	305	306	307	308	309	310
311	312	313	314	315	316	317	318	319	320
321	322	323	324	325	326	327	328	329	330
331	332	333	334	335	336	337	338	339	340
341	342	343	344	345	346	347	348	349	350
351	352	353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368	369	370
371	372	373	374	375	376	377	378	379	380
381	382	383	384	385	386	387	388	389	390
391	392	393	394	395	396	397	398	399	400

We can use this grid to work out  $356 + 40$ .

Start at 356 and count on **4 tens** down the grid.

Do you remember spider counting?



## Subtract near multiples of 10.

301	302	303	304	305	306	307	308	309	310
311	312	313	314	315	316	317	318	319	320
321	322	323	324	325	326	327	328	329	330
331	332	333	334	335	336	337	338	339	340
341	342	343	344	345	346	347	348	349	350
351	352	353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368	369	370
371	372	373	374	375	376	377	378	379	380
381	382	383	384	385	386	387	388	389	390
391	392	393	394	395	396	397	398	399	400

We can also use this grid to work out  $356 - 40$ .

This time, start at 356 and count back **4 tens**.

$$356 - 40 = 316$$

# Learning Reminders

## Add near multiples of 10.

301	302	303	304	305	306	307	308	309	310
311	312	313	314	315	316	317	318	319	320
321	322	323	324	325	326	327	328	329	330
331	332	333	334	335	336	337	338	339	340
341	342	343	344	345	346	347	348	349	350
351	352	353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368	369	370
371	372	373	374	375	376	377	378	379	380
381	382	383	384	385	386	387	388	389	390
391	392	393	394	395	396	397	398	399	400



How could we use the grid to find  $356 + 41$ ?

We could add the **40** then **1** more.

$$356 + 41 = 397$$

## Add near multiples of 10.

301	302	303	304	305	306	307	308	309	310
311	312	313	314	315	316	317	318	319	320
321	322	323	324	325	326	327	328	329	330
331	332	333	334	335	336	337	338	339	340
341	342	343	344	345	346	347	348	349	350
351	352	353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368	369	370
371	372	373	374	375	376	377	378	379	380
381	382	383	384	385	386	387	388	389	390
391	392	393	394	395	396	397	398	399	400



How could we use the grid to find  $356 + 39$ ?


We could **add the 40** then **subtract 1**.  
39 is 1 less than 40.

$$356 + 39 = 395$$

# Learning Reminders

## Subtract near multiples of 10.

301	302	303	304	305	306	307	308	309	310
311	312	313	314	315	316	317	318	319	320
321	322	323	324	325	326	327	328	329	330
331	332	333	334	335	336	337	338	339	340
341	342	343	344	345	346	347	348	349	350
351	352	353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368	369	370
371	372	373	374	375	376	377	378	379	380
381	382	383	384	385	386	387	388	389	390
391	392	393	394	395	396	397	398	399	400



How could we use the grid to find  $356 - 41$ ?

Start at 356 and count back **4 tens**.

Now we need to subtract another 1 to subtract 41.

$356 - 341 = 315$

## Subtract near multiples of 10.

301	302	303	304	305	306	307	308	309	310
311	312	313	314	315	316	317	318	319	320
321	322	323	324	325	326	327	328	329	330
331	332	333	334	335	336	337	338	339	340
341	342	343	344	345	346	347	348	349	350
351	352	353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368	369	370
371	372	373	374	375	376	377	378	379	380
381	382	383	384	385	386	387	388	389	390
391	392	393	394	395	396	397	398	399	400



How could we use the grid to find  $356 - 39$ ?

Start at 356 and count back **4 tens**.

But 40 is 1 more than 39 so we **add 1** to adjust.

$356 - 39 = 317$

# Practice Sheet Mild

## Adding and subtracting near multiples of 10

Solve the following:

...	...	...
...	...	...
...	...	...
...	...	...
...	...	...
...	...	...

### Challenge

...	<input type="text"/>	...
... & ...	<input type="text"/>	...

## Practice Sheet Hot

### Adding and subtracting near multiples of 10

Solve the following:

1.  $118 + 29 =$

2.  $361 + 19 =$

3.  $254 - 21 =$

4.  $342 + 31 =$

5.  $462 - 39 =$

6.  $728 + 49 =$

7.  $417 + 61 =$

8.  $683 - 41 =$

9.  $974 - 59 =$

10.  $626 + 71 =$

#### Challenge

1.  $523 + 49 =$

Now keep adding 49 to the total... What is the largest 3-digit number you make?

2.  $406 - 89 =$

Now keep subtracting 89... What is the first 2-digit answer you reach?

## Practice Sheets Answers

### Adding and subtracting near multiples of 10 (mild)

.....	264	$234 + 31 = 265$	$234 + 29 = 263$
.....	566	$526 + 41 = 567$	$526 + 39 = 565$
.....	458	$478 - 21 = 457$	$478 - 19 = 459$
.....	732	$762 - 31 = 731$	$762 - 29 = 733$
.....	687	$647 - 41 = 688$	$647 - 39 = 686$
9 .....	945	$985 - 41 = 944$	$985 - 39 = 946$

#### Challenge

2. ....

### Adding and subtracting near multiples of 10 (hot)

- $118 + 29 = 147$
- $361 + 19 = 380$
- $254 - 21 = 233$
- $342 + 31 = 373$
- $462 - 39 = 423$
- $728 + 49 = 777$
- $417 + 61 = 478$
- $683 - 41 = 642$
- $974 - 59 = 915$
- $626 + 71 = 697$

#### Challenge

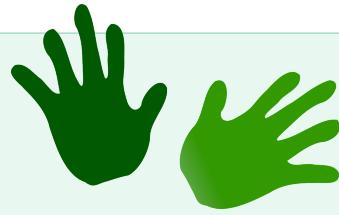
- $523 + 49 = 572$      964 is the largest 3-digit number
- $406 - 89 = 317$      50 is the first 2-digit number

## A Bit Stuck? Secret Spider

*Work in pairs*

### Things you will need:

- A spider
- A 1-100 grid
- Addition and subtraction cards
- A pencil



### What to do:

- Spread the cards out on the table.
- Choose a card without pointing to it. Don't tell your partner which card you chose.
- Use Spider to show the secret addition or subtraction on the grid.
- Can your partner guess which card you chose? If so, you both win 10 points.
- Write the addition or subtraction Spider worked out, including the answer.
- Swap roles and repeat. See if you can score at least 50 points.

$45 + 211 = 56$
$65 - 11 =$

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

Choose an addition and work out the answer without using Spider on the grid.  
Choose a subtraction and work out the answer without using Spider on the grid.

### Learning outcomes:

- I can add and subtract 20 using a 1-100 grid.
- I am beginning to add and subtract 20 without a 1-100 grid.

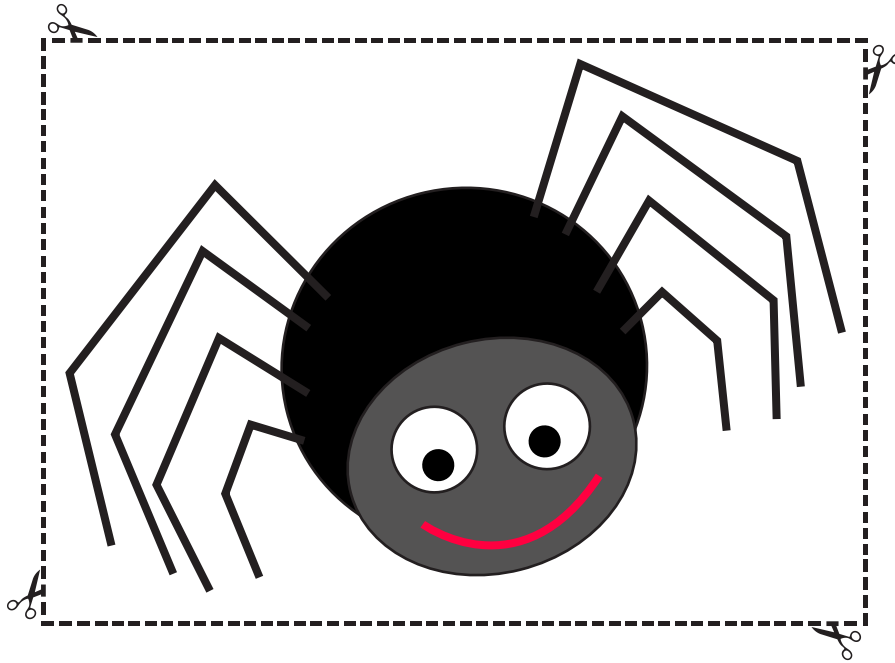
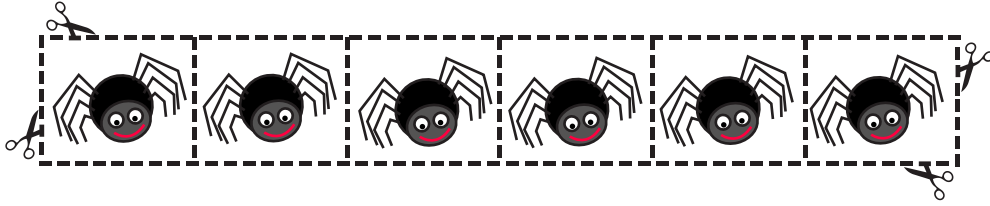




**A Bit Stuck?**  
**Secret Spider**

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? Secret Spider



**A Bit Stuck?**  
**Secret Spider**


$$45 + 11$$

$$86 - 9$$

$$72 + 11$$


$$65 - 11$$

$$57 - 11$$

$$48 + 9$$

$$52 + 11$$

$$90 - 11$$

$$82 + 9$$


$$56 + 9$$

$$36 - 9$$

$$91 - 9$$




## Check your understanding

### Answers

Add 40 to each of...    216   256   159   199   378   418

---

Subtract 50 from each of...   117   67   349   299   608   558

---

Complete each pair of calculations:

$436 + 40 = 476$

$773 - 40 = 733$

$436 + 39 = 475$

$773 - 41 = 732$

$573 - 30 = 543$

$105 + 51 = 156$

$573 - 29 = 544$

$105 + 49 = 154$

Check for children who are adjusting the wrong way when adding or subtracting near multiples of 10. Encourage children to model the calculations with empty number line jottings.

---

Solve these word problems:

1. Sam's Dad buys a laptop for £345.

Sam buys a game for £39.

How much did they spend in total? **£384**

2. Bella has measured the shelf and it is 253cm long.

She saws off two pieces that are each 29cm long.

How long is the shelf now? **195cm.**