Year 5: Week 5, Day 1

Addition and subtraction of numbers with 2 decimal places

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.

- 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**...





	Place value add	dition and t	ubtraction
1	4.538 + 0.2	2	4538 + 0.03
3	4.538 - 0.004	4.	4.538 - 0.02
5	6.231 + 0.11	б.	6.231 + 0.101
7	6.231 + 0.011	8.	5.846 - 0.211
9	5.846 - 0.13	10.	5.846 - 0.013
1	1. 5.846 - 0.204	12.	4.789 + 0.001

Learning Reminders

Here is a 'Place Value' chart. It shows us how changing the PLACE of a digit in a number affects its VALUE. Remind yourself about the value of each row in the chart before having a go at the few questions below.

hundredths	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
tenths	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
ones	1	2	3	4	5	6	7	8	9
tens	10	20	30	40	50	60	70	80	90
hundreds	100	200	300	400	500	600	700	800	900

So, the 4 in 0.4 is worth 4 tenths, the 9 in 0.09 is worth 9 hundredths and so on...

What values do the underlined digits have:	<u>5</u> 00	<u>2</u> .7	10.0 <u>8</u>	0. <u>6</u> 3	<u>4</u> 1.1	
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2 ones 8 hundredths 6 tenths 2

Answers: 5 hundreds 2 ones

Learning Reminders



Learning Reminders

This time, have a go at filling in the answers, then check them at the bottom of the page.





Practice Sheet Mild Place value addition and subtraction

1.	4 + 0.53	2.	6.07 + 0.5
3.	5.78 - 0.08	4 .	8.64 - 0.6
5.	8.23 + 0.1	6.	4.56 + 0.01
7 .	8.47 – 0.01	8 .	9.35 – 0.1
9.	6.21 + 0.2	10.	9.34 – 0.2
11.	8.25 + 0.03	12.	7.38 – 0.03

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	Practice Sheet Hot	
Ple	ace value addition and subtraction	
		•
1 4 21 4 0 2	2 0 2 4 0 2	*
I. 0.21 + U.2	2. 9.34 - 0.2	
3. 8.25 + 0.03	4. 7.38 – 0.03	
5. 9.34 + 0.11	6. 8.53 – 0.11	•
7 473 + 101	8 8 1 4 - 1 0 1	*
7. 4.75 1 1.01		•
9. 4.27 + 1.2	10. 8.75 – 1.02	•
11. 3.24 + 1.23	12. 9.87 - 1.81	
		*

Challenge

Start at 4.36. Add or subtract tenths and hundredths to make an addition and subtraction chain ending with the number 5.02.

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Practice Sheets Answers

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Place value addition and subtraction (mild)

1.	4 + 0.53 = 4.53	2.	6.07 + 0.5 = 6.57	3.	5.78 - 0.08 = 5.7
4 .	8.64 - 0.6 = 8.04	5.	8.23 + 0.1 = 8.33	6.	4.56 + 0.01 = 4.57
7.	8.47 - 0.01 = 8.46	8.	9.35 - 0.1 = 9.25	9.	6.21 + 0.2 = 6.41
10.	9.34 - 0.2 = 9.14	11.	8.25 + 0.03 = 8.28	12.	7.38 - 0.03 = 7.35

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Place value addition and subtraction (hot)

1. $6.21 + 0.2 = 6.41$	2. 9.34 - 0.2 = 9.14	3. 8.25 + 0.03 = 8.28
4. 7.38 - 0.03 = 7.35	5. 9.34 + 0.11 = 9.45	6. 8.53 - 0.11 = 8.42
7. 4.73 + 1.01 = 5.74	8. 8.14 - 1.01 = 7.13	9 . 4 .27 + 1 .2 = 5 .47
10. 8.75 - 1.02 = 7.73	11. $3.24 + 1.23 = 4.47$	12. 9.87 - 1.81 = 8.06

Challenge

Different answers are possible, e.g. 4.36 + 0.06 = 4.42, 4.42 - 0.1 = 4.32, 4.32 + 0.7 = 5.02

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A Bit Stuck? Add and Subtract 0.1 and multiples of 0.1

Remember that moving one square to the right on this 0.1 to 10 grid adds 0.1, and to the left subtracts 0.1.

So, moving two squares right/ left will add/subtract 0.2, and so on...

0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2
2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3
3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4
4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5
5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6
6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7
7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8
8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9
9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10

Use the grid to answer the following:

1. 1.5 + 0.1

- 2. 2.2 0.1
- 3. 5.9 + 0.1
- 4. 4.7 0.1
- 5. 8.4 + 0.2
- 6. 5.6 0.3
- 7. 9.7 1 (careful!)
- 8. 8.5 + 0.4
- 9. 6.8 + 0.3
- 10. 2.2 0.4

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	ys greater than one tenth or 0.1		saiwc	ays more than one unit, so here it is
	0.1 0.5	0.3	0.7]
	0.9 1.1	1.3	1.5	
	0.2 0.6	0.4	0.8	
	1 1.2	1.4	1.6	
1.	Find the difference between each pai	r of	U	
	numbers along the top row of this squ So between 0.1 and 0.5, then between	are. n 0.5	0	
2	and 0.3, then between 0.3 and 0.7, and Popost this for the second row, and th	so on.	0	0.5 - 0.1 = 0.4
Ζ.	third and fourth rows.	le	0	0.5 - 0.3 =
3.	Now find the difference between eac	h	0	
	between 0.1 and 0.9, then between 0).9		
4.	and 0.2 and then between 0.2 and 1. Repeat this for the second, third and fourth columns.			
Wha	t is the greatest difference?		U	
Wha	t is the smallest difference?		\bigcirc	
Are o	all the differences greater than U.1?		0	
5.	Draw a 3 x 3 grid.		0	
ó. 7.	Use the numbers: U. I, U.2, U.3 up to C Can you arranae these on the arid to	J.Y.		
	create a Talisman Square where all th	e	C .	
	neighbouring numbers have a differen areater than 0.1?	ce	0	
	,		0	
Wha Do v	t do you notice? ou think this is possible?		0	
Can	you explain your answer?			

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