## 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.

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

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
500
2.7
10.08
0.63
41.1

## Learning Reminders

Place value addition and subtraction of numbers with two decimal places.


## 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. $7.38-0.03$ |

## Practice Sheet Hot

## Place value addition and subtraction

1. $6.21+0.2$
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. $4.73+1.01$
8. $8.14-1.01$
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.

## Practice Sheets Answers

## 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. $7.38-0.03=7.35$

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. $4.36+0.06=4.42,4.42-0.1=4.32,4.32+$ $0.7=5.02$

## 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. $\quad 1.5+0.1$
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. $9.7-1$ (carefu!!)
8. $8.5+0.4$
9. $6.8+0.3$
10. $2.2-0.4$

