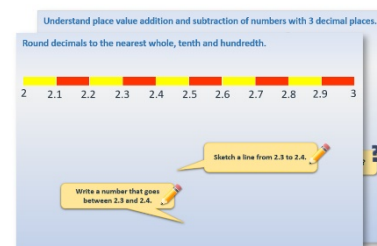


# Week 1 Day 1

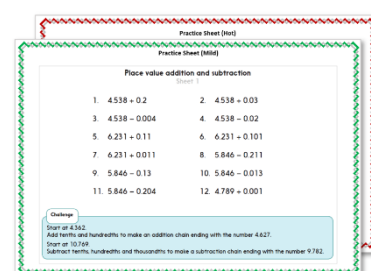
## Understanding decimals

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

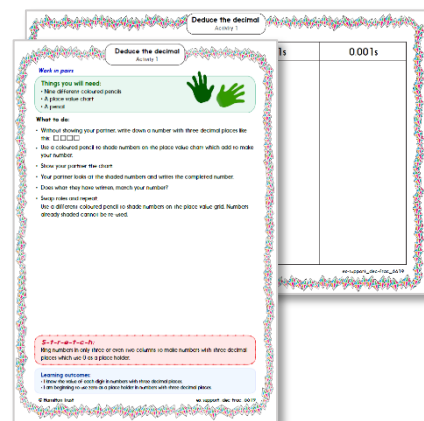
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



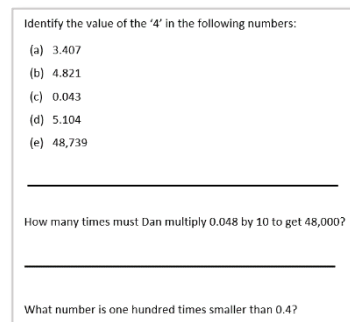
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



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

Understand place value addition and subtraction of numbers with 3 decimal places.

4.735

What do the 7, 3 and 5 represent?

Place value grid

10s	1s	0.1s	$\frac{1}{10}$ s	0.01s	$\frac{1}{100}$ s	0.001s	$\frac{1}{1000}$ s
	4	•	7		3		5
	4	•	8				

What is  $4.735 - 0.03$ ?

Which is more, 4.735 or 4.8? Why?

## Learning Reminders

Understand place value addition and subtraction of numbers with 3 decimal places.

4.735

4.775

4.375

4.495

4.494

4.444

Add 0.04.  
Write the new number.

Subtract 0.4

Add 0.12

Subtract 0.001

Subtract 0.05

What was your final number?



## Learning Reminders

Understand place value addition and subtraction of numbers with 3 decimal places.

3.626

Add 0.03.  
Write the new number.

Subtract 0.5

Add 0.14

Subtract 0.002

Subtract 0.08

What is your final number?

## Practice Sheet

### Place value addition and subtraction

1.  $4.538 + 0.2$

2.  $4.538 + 0.03$

3.  $4.538 - 0.004$

4.  $4.538 - 0.02$

5.  $6.231 + 0.11$

6.  $6.231 + 0.101$

7.  $6.231 + 0.011$

8.  $5.846 - 0.211$

9.  $5.846 - 0.13$

10.  $5.846 - 0.013$

11.  $5.846 - 0.204$

12.  $4.789 + 0.001$

13.  $4.408 + 2.222$

14.  $0.725 + 1.001$

15.  $1.903 + 1.107$

#### Challenge

Start at 4.362.

Add tenths and hundredths to make an addition chain ending with the number 4.627.

Start at 10.769.

Subtract tenths, hundredths and thousandths to make a subtraction chain ending with the number 9.782.

## Practice Sheet answers

1.  $4.538 + 0.2 = 4.738$

3.  $4.538 - 0.004 = 4.534$

5.  $6.231 + 0.11 = 6.341$

7.  $6.231 + 0.011 = 6.242$

9.  $5.846 - 0.13 = 5.716$

11.  $5.846 - 0.204 = 5.642$

13.  $4.408 + 2.222 = 6.63$

15.  $1.903 + 1.107 = 3.01$

2.  $4.538 + 0.03 = 4.568$

4.  $4.538 - 0.02 = 4.518$

6.  $6.231 + 0.101 = 6.332$

8.  $5.846 - 0.211 = 5.635$

10.  $5.846 - 0.013 = 5.833$

12.  $4.789 + 0.001 = 4.79$

14.  $0.725 + 1.001 = 1.726$

### Challenge

Accept answers where children have added both tenths and hundredths to reach the answer, e.g.  $4.362 + 0.2 + 0.065 = 4.627$  or  $4.362 + 0.18 + 0.085 = 4.647$

Accept answers where children have subtracted tenths, hundredths and thousandths to reach the answer, e.g.

$$10.769 - 0.9 - 0.08 - 0.007 = 9.782$$

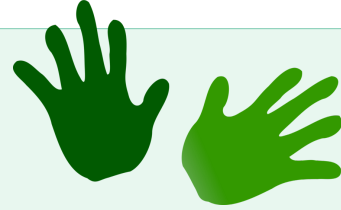
## A Bit Stuck?

### Deduce the decimal

#### Work in pairs

##### Things you will need:

- Nine different coloured pencils
- A place value chart
- A pencil



##### What to do:

- Without showing your partner, write down a number with three decimal places like this:  $\square.\square\square\square$
- Use a coloured pencil to shade numbers on the place value chart which add to make your number.
- Show your partner the chart.
- Your partner looks at the shaded numbers and writes the completed number.
- Does what they have written, match your number?
- Swap roles and repeat.  
Use a different coloured pencil to shade numbers on the place value grid. Numbers already shaded cannot be re-used.

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

Ring numbers in only three or even two columns to make numbers with three decimal places which use 0 as a place holder.

##### Learning outcomes:

- I know the value of each digit in numbers with three decimal places.
- I am beginning to use zero as a place holder in numbers with three decimal places.

**A Bit Stuck?**  
**Deduce the decimal**

1s	• 0.1s	0.01s	0.001s



**A Bit Stuck?**  
**Deduce the decimal**

Place value chart

1	0.1	0.01	0.001
2	0.2	0.02	0.002
3	0.3	0.03	0.003
4	0.4	0.04	0.004
5	0.5	0.05	0.005
6	0.6	0.06	0.006
7	0.7	0.07	0.007
8	0.8	0.08	0.008
9	0.9	0.09	0.009

## Check your understanding

### Questions

Identify the value of the '4' in the following numbers:

- (a) 3.407
- (b) 4.821
- (c) 0.043
- (d) 5.104
- (e) 48,739

*Fold here to hide answers:*

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## Check your understanding

### Answers

Identify the value of the '4' in the following numbers:

- (a) 3.407 4 tenths
- (b) 4.821 4 or 4 ones
- (c) 0.043 4 hundredths
- (d) 5.104 4 thousandths
- (e) 48,739 40 thousand