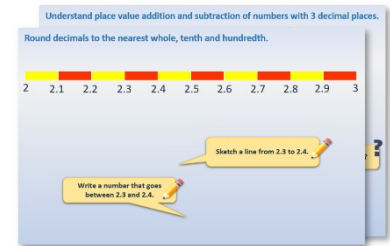


# Year 5: Week 1, Day 4

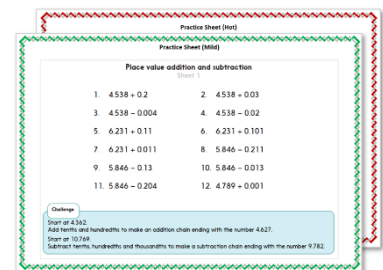
## Column addition of decimals

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

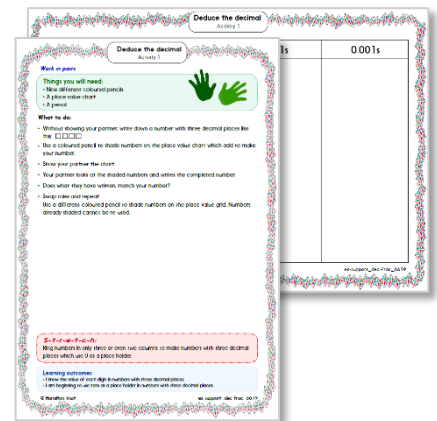
- Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



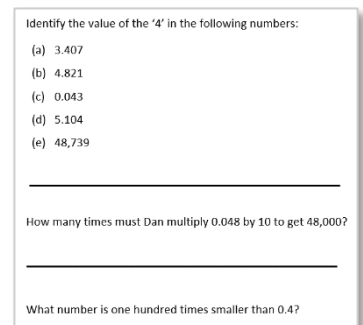
- Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



- Finding it tricky? That's OK... have a go with a grown-up at **A Bit Stuck?**



- Have I mastered the topic? A few questions to **Check your understanding**. Fold the page to hide the answers!



## Learning Reminders

Use written addition to add decimals.

Calculate  $4.56 + 2.37$

Let's find the exact total using column addition; 'expanded' method first...

Add the 0.01s, then the 0.1s, then the 1s.

$$\begin{array}{r} 4 \text{ } 0.5 \text{ } 0.06 \\ + 2 \text{ } 0.3 \text{ } 0.07 \\ \hline 6 \text{ } 0.9 \text{ } 0.03 \\ \hline 6.93 \end{array}$$

$$0.06 + 0.07 = 0.13$$

Remember to leave a blank row above the answer line.

...now the 'compact' method.

Add the 0.01s, then the 0.1s, then the 1s.

$$\begin{array}{r} 4.56 \\ + 2.37 \\ \hline 6.93 \end{array}$$

Use written addition to add decimals.

Find  $35.6 + 78.5$

Add the 0.1s, then the 1s, then the 10s.

$$\begin{array}{r} 30 \text{ } 5 \text{ } 0.6 \\ + 70 \text{ } 8 \text{ } 0.5 \\ \hline 10 \text{ } 1 \text{ } \\ \hline 110 \text{ } 4 \text{ } 0.1 \\ \hline 114.1 \end{array}$$

or

$$\begin{array}{r} 35.6 \\ + 78.5 \\ \hline 114.1 \end{array}$$

## Learning Reminders

Use written addition to add decimals.

$$45.7 + 3.45$$

Are you happy  
with this  
layout?

$$\begin{array}{r} 45.7 \\ + 3.45 \\ \hline \end{array}$$

$$\begin{array}{r} 45.7 \\ + 3.45 \\ \hline 1 \\ 49.15 \end{array}$$

No! The columns need to be aligned correctly.  
We need to align tenths with tenths, etc. The easy way to do this is to align the decimal point in each number.

## Learning Reminders

### Column addition of decimal numbers.

Table of shot put results

Athlete	1st throw	2nd throw
Ceri	21.67m	24.79m
James	22.12m	24.65m
Gurpit	22.45m	21.89m
Natasha	23.57m	22.68m
Alice	22.56m	23.13m

Find  
Ceri's total

$$\begin{array}{r} 21.67\text{ m} \\ + 24.79\text{ m} \\ \hline \end{array}$$

## Practice Sheet Mild

### Adding decimals

Add each pair of numbers to find an exact total.

1.  $34.5 + 27.3$

6.  $5.42 + 6.37$

2.  $62.7 + 23.5$

7.  $4.48 + 3.27$

3.  $24.8 + 43.9$

8.  $5.63 + 2.84$

4.  $46.7 + 25.5$

9.  $6.57 + 2.48$

5.  $47.8 + 34.4$

10.  $7.85 + 4.56$

How accurate were your estimates?

## Practice Sheet Mild

### Shot put results

Who do you think won the shot put event?

Find the total of the two throws for each athlete.

Then rank the athletes.

Athlete	1st throw	2nd throw
Ceri	21.67m	24.79m
James	22.12m	24.65m
Gurpit	22.45m	21.89m
Natasha	23.57m	22.68m
Alice	22.56m	23.13m

## Practice Sheet Hot

### Adding decimals

Add each pair of numbers to find an exact total.

1.  $67.8 + 35.9$

2.  $45.8 + 26.7$

3.  $5.42 + 6.37$

4.  $4.48 + 3.27$

5.  $5.63 + 2.84$

6.  $6.57 + 2.48$

7.  $7.85 + 4.56$

8.  $37.2 + 4.28$

9.  $24.6 + 3.84$

10.  $47.4 + 8.7$

11.  $3.78 + 21.8$

12.  $45.5 + 2.52$

How accurate were your estimates?

#### Challenge

Janie says that adding 36.2 to 9.77 gives an answer of 133.9.  
What advice would you give her?

## Practice Sheet Hot

### Long jump results

Who do you think won the long jump event?  
Find the total of the three jumps for each athlete.  
Then rank the athletes.

Athlete	1st jump	2nd jump	3rd jump
Sunita	3.45m	3.28m	3.64m
Dylan	2.87m	3.14m	2.96m
Faith	2.92m	3.04m	2.97m
Lee	3.07m	3.26m	3.18m
Toby	3.46m	3.19m	3.24m
Abbie	3.27m	3.54m	3.27m

#### Challenge

Zane has just beaten the winner by a total of 16cm!  
He never jumped less than 3.00m - what could be the distances for his three jumps?