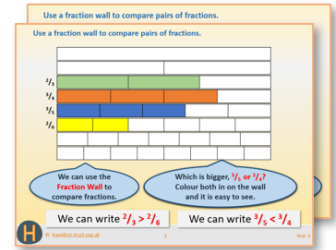


Year 5: Week 3, Day 4

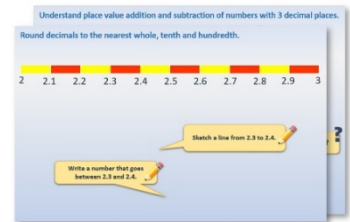
Short division (3-digit numbers)

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

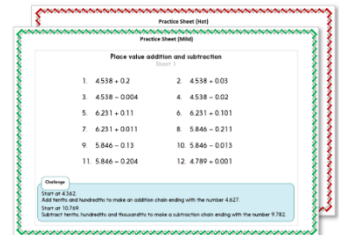
1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.



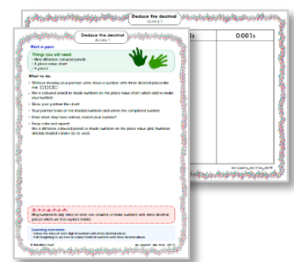
OR start by carefully reading through the **Learning Reminders**.



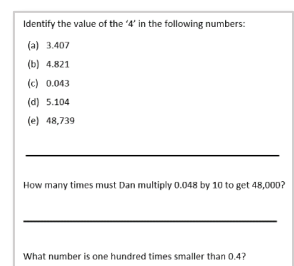
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



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

Use short division to divide 3-digit numbers by 1-digit numbers.

$$546 \div 3$$

$$3 \overline{) 546}$$

We are going to move a sticky note along to hide and reveal each column in turn.

$$3 \overline{) 546} \begin{array}{c} 1 \\ \end{array}$$

The diagram shows the first step of the division process. The number 546 is written under a long division bar with 3 to the left. A '1' is written above the bar. The number 5 is written below the bar, followed by a superscript 2 and two yellow sticky notes that are partially overlapping the 4 and 6.

?
How many 3s in 5?

1, and 2 left over.
We write 1 in the 100s column as we are dividing the 100s, then 2 tens in front of the 10s digit.

Learning Reminders

Use short division to divide 3-digit numbers by 1-digit numbers.

8. We write 8 in the 10s column as we are dividing the 10s.

$$\begin{array}{r} 18 \\ 3 \overline{) 524} \end{array}$$

? How many 3s in 24?

Learning Reminders

Use short division to divide 3-digit numbers by 1-digit numbers.

2. We write 2 in the 1s column.

$$\begin{array}{r} 182 \\ 3 \overline{) 546} \end{array}$$

? How many 3s in 6?

The answer is **182**.

Practice Sheet Mild

Division practice

1. $369 \div 3$

2. $448 \div 4$

3. $575 \div 5$

4. $378 \div 3$

5. $672 \div 6$

6. $898 \div 8$

7. $791 \div 7$

8. $643 \div 3$

9. $857 \div 4$

10. $563 \div 5$

11. $691 \div 6$

12. $936 \div 9$

Challenge

Without working them out, which of these do you think will have a remainder? Does your partner agree?

$933 \div 4$

$801 \div 3$

$696 \div 8$

$676 \div 5$

Now try them out! Were you right?

Practice Sheet Hot

Division problems

Set out and solve these calculations:

1. $233 \div 4$ 2. $547 \div 8$ 3. $451 \div 7$ 4. $628 \div 9$

Solve these word problems:

5. Some pizzas are cut into 8 slices. How many pizzas are needed for 572 slices?
6. 7 children fit into a minibus. How many minibuses are needed to take 322 children on a trip?
7. 9 friends share out 534 marbles. How many marbles does each child get? How many are left over?
8. Stickers come in packets of 6. If I need 370 stickers to give out at my party how many packets should I buy?

Now make up two problems, each involving one of these calculations:

9. $546 \div 6$

10. $428 \div 8$

Challenge

Which numbers between 1 and 12 will NOT divide evenly into 504 (i.e. with no remainder)?