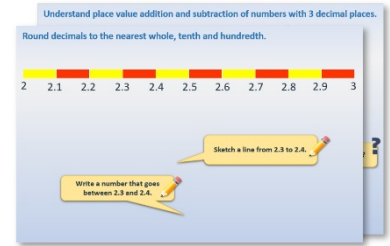


Year 5: Week 1, Day 2

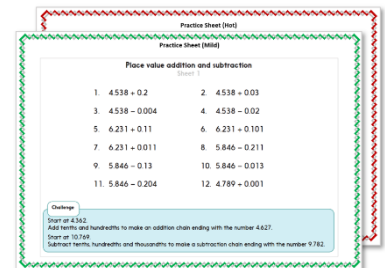
Written (vertical) subtraction: decomposition

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

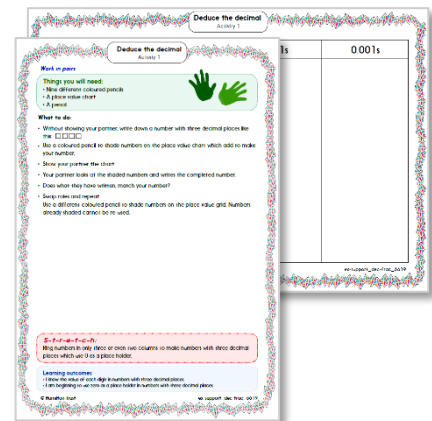
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



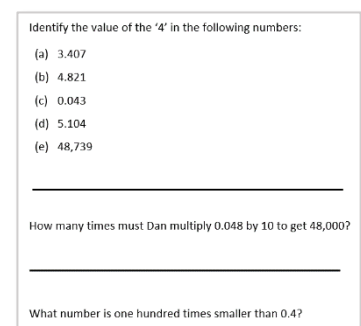
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



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

Use decomposition to subtract pairs of 5-digit numbers.

Find $64,783 - 35,327$

Let's remind ourselves how to use both expanded and compact column subtraction (decomposition)...

First subtract the 1s, then 10s, then 100s, then 1000s, then 10,000s.

$$\begin{array}{r} 50,000 \quad 14,000 \quad \quad \quad 70 \quad 13 \\ \del{60,000} \quad \del{4000} \quad 700 \quad \del{80} \quad \del{3} \\ - 30,000 \quad 5000 \quad 300 \quad 20 \quad 7 \\ \hline 20,000 \quad 9000 \quad 400 \quad 50 \quad 6 \\ \hline \mathbf{29,456} \end{array}$$

$$\begin{array}{r} 5 \quad 14 \quad \quad 7 \quad 13 \\ \del{6} \quad \del{4} \quad 7 \quad \del{8} \quad \del{3} \\ - 3 \quad 5 \quad 3 \quad 2 \quad 7 \\ \hline 2 \quad 9 \quad 4 \quad 5 \quad 6 \end{array}$$

Learning Reminders

Use decomposition to subtract pairs of 5-digit numbers.

Have a go at using either expanded or compact decomposition to calculate $72,846 - 47,063$.



$$\begin{array}{r} 70,000 \quad 2000 \quad 800 \quad 40 \quad 6 \\ - 40,000 \quad 7000 \quad 0 \quad 60 \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 2 \quad 8 \quad 4 \quad 6 \\ - 4 \quad 7 \quad 0 \quad 6 \quad 3 \\ \hline \end{array}$$

Answers

$$\begin{array}{r} 25,783 \\ \hline 20,000 \quad 5000 \quad 700 \quad 80 \quad 3 \\ - 40,000 \quad 7000 \quad 0 \quad 60 \quad 3 \\ \hline 60,000 \quad 12,000 \quad 700 \quad 140 \\ \hline \end{array}$$

$$\begin{array}{r} 25783 \\ \hline 20000 \quad 5000 \quad 700 \quad 80 \quad 3 \\ - 47063 \\ \hline 612714 \\ \hline \end{array}$$

Practice Sheet Mild

Subtracting 4-digit numbers

Complete each subtraction.

1. $4582 - 2317$
2. $9635 - 2381$
3. $5056 - 3214$
4. $8264 - 2327$
5. $6523 - 3289$
6. $8236 - 5460$
7. $4562 - 1684$
8. $9450 - 5728$

Choose two of your subtractions to check with addition.

Challenge

Find the missing digits in this subtraction:

$$\square 4 1 \square - 1 \square 3 6 = 7 0 \square 7$$

Practice Sheet Hot

Subtracting 5-digit numbers

Complete each subtraction.

1. $86,541 - 23,016$
2. $72,438 - 51,274$
3. $65,056 - 23,432$
4. $91,786 - 34,235$
5. $72,872 - 25,348$
6. $56,284 - 32,518$
7. $92,628 - 45,371$
8. $56,723 - 21,575$
9. $45,842 - 27,486$

Choose two of your subtractions to check with addition.

Challenge

Write a 5-digit – 5-digit subtraction where you will have to move numbers from four columns!

Extra Practice for All

Subtracting 5-digit numbers

1. $43,972 - 37,439$

2. $56,382 - 22,936$

3. $85,604 - 42,367$

4. $74,083 - 41,448$

5. $93,487 - 38,124$

6. $83,572 - 47,429$

7. $82,005 - 79,876$

8. $45,321 - 24,756$

9. $92,467 - 36,871$

10. $40,625 - 23,478$

11. $63,724 - 38,474$

12. $83,074 - 48,238$

13. $72,380 - 56,524$

14. $92,412 - 67,845$

15. $90,401 - 78,832$

Challenge

Write a subtraction which has an answer of 12,345.
The subtraction must require you to move a ten and a hundred.