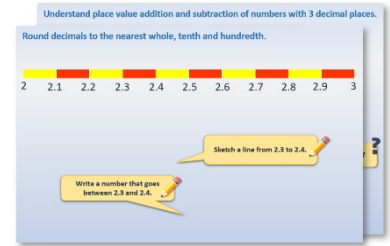


Year 5: Week 1, Day 1

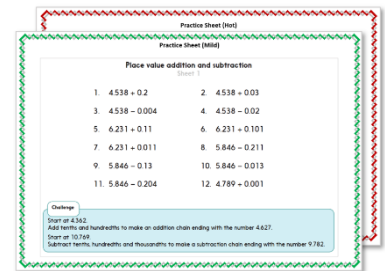
Mental addition and subtraction strategies

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

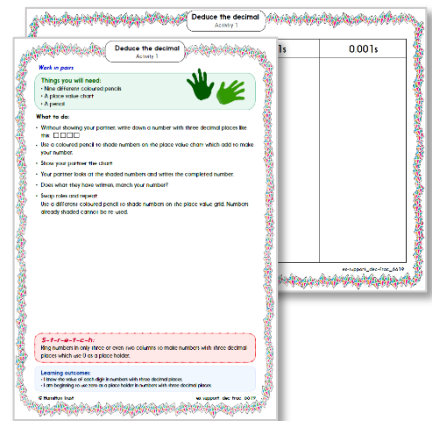
- Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



- 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!

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

How many times must Dan multiply 0.048 by 10 to get 48,000?

What number is one hundred times smaller than 0.4?

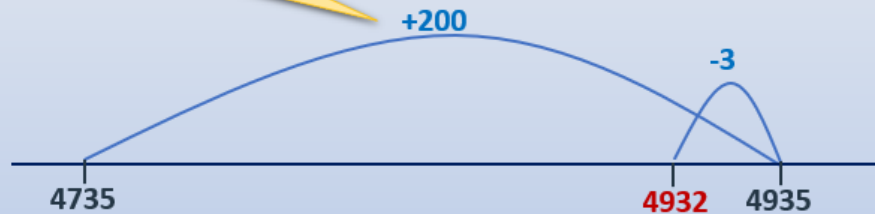
Learning Reminders

Use place value to add and subtract; add and subtract near multiples of 100 and 1000.

If we can use place value to add 200 to 4735, we can use this answer to add 197 to 4735.

197 is a 'nearly' number – it's nearly a multiple of 100. This 'add and adjust' strategy makes adding near-multiples of 100 a bit more straightforward...

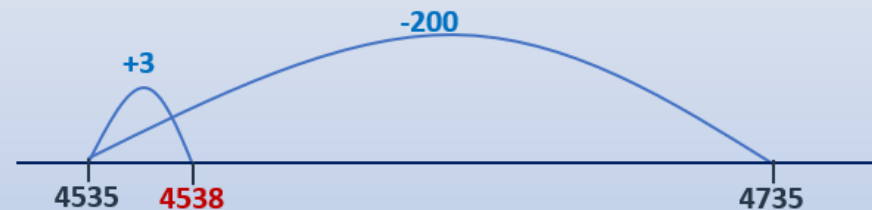
Add 200 to 4735 and write the answer. Now use this answer to add 197 to 4735.



Use place value to add and subtract; add and subtract near multiples of 100 and 1000.

This works for subtraction too... Subtract 200 from 4735 and write the answer. Then use this answer to subtract 197 from 4735.

This time we 'subtract and adjust' to make subtracting a near-multiple of 100 a bit more straightforward...

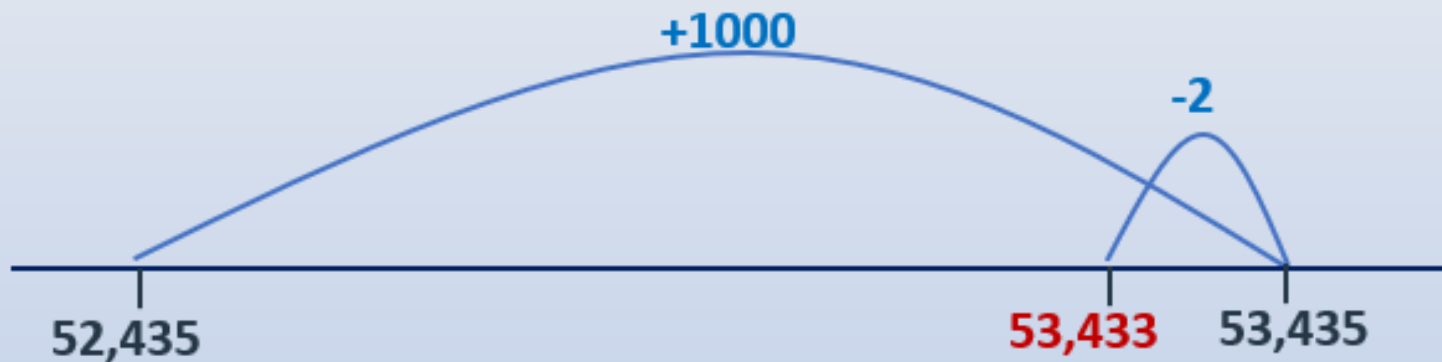


Learning Reminders

Use place value to add and subtract near multiples of 100, 1000 and 10,000.

The 'add and adjust' strategy also works for near-multiples of 1000.

What is $52,435 + 998$...?
Add 1000 and write the answer.
Now use this answer to add 998 to 52,435.



Learning Reminders

Use place value to add and subtract; add and subtract near multiples of 100, 1000 and 10,000.

Add 2000 and write the answer. Use this answer to add 1995 to 52,435.

Try these...

52,435

Subtract 2000 and write the answer. Now use this answer to subtract 1995 from 52,435.

Add 300 and write the answer. Use this answer to add 297 to 52,435.

Subtract 300 and write the answer. Now use this answer to subtract 297 from 52,435.

Practice Sheet Mild

Mental addition and subtraction

1. $4580 + 205$

6. $4783 - 480$

11. $7845 - 1999$

2. $8040 + 508$

7. $8536 - 2004$

12. $3425 + 400$

3. $3452 + 2005$

8. $4563 + 2000$

13. $3425 + 399$

4. $4293 + 4300$

9. $4563 + 1999$

14. $7845 - 200$

5. $8572 - 502$

10. $7845 - 2000$

15. $7845 - 199$

Challenge

Zoe thinks of a number and adds 2988. She then subtracts 1100. Her answer is 8888. What number did she start with?

Practice Sheet Hot

Mental addition and subtraction

1. $64,378 + 3001$

6. $74,874 + 2999$

2. $78,745 - 21,000$

7. $43,473 + 398$

3. $45,063 + 2300$

8. $87,532 - 29,999$

4. $78,462 - 8002$

9. $63,467 - 1998$

5. $45,364 + 19,999$

10. $54,879 - 495$

Challenge

Mia thinks of a number and subtracts 5555. She then adds 1010. Her answer is 5454. What number did she start with?

Extra Practice Sheet for All

Mental addition and subtraction

1. $3002 + 450$

2. $9784 - 704$

3. $4723 + 402$

4. $2538 + 2001$

5. $9826 - 803$

6. $4782 - 502$

7. $3782 + 200$

8. $3782 + 198$

9. $4658 - 100$

10. $4658 - 97$

11. $3478 + 1000$

12. $3478 + 999$

13. $5298 - 1000$

14. $5298 - 999$

15. $4578 + 321$

16. $8734 - 6031$

17. $23,472 - 2222$

18. $45,310 + 3409$

19. $8345 + 397$

20. $7935 - 298$

21. $3458 + 1997$

22. $9768 - 2995$

23. $45,237 + 3900$

24. $57,345 - 2998$

Challenge

Start with 9999. Subtract 2424. Add 1313. What pattern do you get? How many times can you do this before you reach 0?