Year 5: Week 4, Day 1 Column addition of 4-digit and 5-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.

- 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. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...



4.538 - 0.00 6.231 + 0.11

6.231 + 0.10



2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9



Learning Reminders



Learning Reminders



Learning Reminders



Practice Sheet Mild Column addition

Look down the additions.

Decide which will have the largest answer. Make a note of it. Decide which will have the smallest answer. Make a note of it. Now find each total. Watch out! They do not all need column addition!

- 1. 4678 + 2372 + 1352
- 2. 5234 + 6024 + 3528
- 3. 43,271 + 28,345
- 4. 32,846 + 24,758
- 5. 63,278 + 6831
- 6. 45,734 + 9999

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Practice Sheet Hot Column addition

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Look down the additions.

Decide which will have the largest answer. Make a note of it. Decide which will have the smallest answer. Make a note of it. Now find each total. Watch out! They do not all need column addition!

- 1. 4583 + 45,274
- 2. 8572 + 4782 + 5837
- 3. 6934 + 5047 + 8739
- 4. 86,489 + 76,431
- 5. 92,371 + 30,004
- 6. 45,273 + 23,542 + 13,258
- 7. 45,624 + 57,432 + 9467
- 8. 5632 + 3789 + 2745 + 3846

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Practice Sheet Answers

Column addition (mild)

1.	4678 + 2372 + 1352 = 8402
2.	5234 + 6024 + 3528 = 14,786
3.	43,271 + 28,345 = 71,616
4 .	32,846 + 24,758 = 57,604
5.	63,278 + 6831 = 70,109

6. **45,734 + 9999 = 55,733**

Column addition (hot)

1.	4583 + 45,274 = 49,857
2.	8572 + 4782 + 5837 = 19,191
3.	6934 + 5047 + 8739 = 20,720
4.	86,489 + 76,431 = 162,920
5.	92,371 + 30,004 = 122,375
6.	45,273 + 23,542 + 13,258 = 82,073
7.	45,624 + 57,432, + 9467 = 112,523
8.	5632 + 3789 + 2745 + 3846 = 16,012

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A Bit Stuck? Super scores Work in pairs Things you will need: • A pencil What to do: Use column addition to work out Jimmy's total score. • Look at the other children's scores. Who do you think had the highest total score? 0 4238 Who do you think had the lowest total score? +2146(• Work as a pair to work out all the total scores 0 to see if you are right. 6384 GAME 1 GAME 1 GAME 1 Jimmy 2348 Katya 3821 Sunny 5372 GAME 2 GAME 2 GAME 2 Jimmy 1217 Katya 2443 Sunny 3164 GAME 1 GAME 1 GAME 1 GAME 1 Abbie 4382 Scott 3427 Sharon 6239 Sandip 3945 GAME 2 GAME 2 GAME 2 GAME 2 Scott 3281 Sharon 1324 Sandip 2832 Abbie 2714 S-t-r-e-t-c-h: Write an addition of a pair of 4-digit numbers where the answer is between 8000 and 9000.

Write an addition where the answer is between 3000 and 4000.

Learning outcomes:

- I can use column addition (expanded or compact) to add pairs of four-digit numbers where the
- Is are greater than 10, or the 10s are greater than 100 or the 100s are greater than 100.
- I am beginning to estimate total of 4-digit numbers.

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E L	Write any addition of three 4-digit numbers where the answer is between 28,550 and 28,650.	3 1
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13 1	 where no digit 0 to 9 is used more than twice; that use the same number three times? 	2
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