## Year 5: Week 4, Day 1 <br> 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.

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

## Learning Reminders

Revise column addition of 4-digit and 5-digit numbers.


## Learning Reminders



## Learning Reminders

Revise column addition of 4-digit and 5-digit numbers.

$$
\begin{array}{rr}
4267+2784+3832 & 8723+5265 \\
23,451+18,325 & 67,342+8,352
\end{array}
$$

Remember to leave a blank row above the answer line.

$$
\begin{array}{r}
67342 \\
+\quad 8352 \\
1 \\
\hline 75694
\end{array}
$$

## It's really important to align

the numbers to the right, according to their place value.

## 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. $45,734+9999$

## Practice Sheet Hot 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. $4583+45,274$
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. $5632+3789+2745+3846$

## 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. $5632+3789+2745+3846=16,012$

## Work in pairs

## A Bit Stuck? Super scores

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? Who do you think had the lowest total score?
- Work as a pair to work out all the total scores to see if you are right.


GAME 1
Jimmy 2348
GAME 2
Jimmy 1217


GAME 1
Scott 3427
GAME 2
Scott 3281


GAME 1
Katya 3821
GAME 2
Katya 2443


GAME 1
Sharon 6239
GAME 2
Sharon 1324



## GAME 1

Sandip 3945
GAME 2
Sandip 2832

## GAME 1

 Abbie 4382GAME 2
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 10 s are greater than 100 or the 100 s are greater than 100.
- I am beginning to estimate total of 4-digit numbers.
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