

Maths skills – Follow on from live lesson

Learning objective: to use the column subtraction method and reason around it.

Warm up – Using what we revised last lesson, can you solve this missing number problem.

Work out the missing numbers.

	?	4	?	3	?
+	2	?	5	?	2
	7	8	5	2	9

Column subtraction

Subtraction: Column Method

$$\begin{array}{r} 75 \\ - 48 \\ \hline \\ \hline \end{array}$$

Place the numbers one on top of the other, lining up the tens and the ones.

$$\begin{array}{r} 75 \\ - 48 \\ \hline \\ \hline \end{array}$$

Start by subtracting the ones (always start from the right-hand column). The answer to $5 - 8$ is negative.

$$\begin{array}{r} \overset{6}{\cancel{7}}\overset{1}{5} \\ - 48 \\ \hline 7 \\ \hline \end{array}$$

Exchange a 10 from the 70 to give 15 ones. Subtract the ones: $15 - 8 = 7$

$$\begin{array}{r} \overset{6}{\cancel{7}}\overset{1}{5} \\ - 48 \\ \hline 27 \\ \hline \end{array}$$

Subtract the tens: $60 - 40 = 20$

$$\begin{array}{r} \overset{6}{\cancel{7}}\overset{1}{5} \\ - 48 \\ \hline 27 \\ \hline \end{array}$$

Check your answer.



- <https://www.youtube.com/watch?v=L3ANvTHKf7U>

This video gives clear instructions, offering a visual aid on how to use the column subtraction method.

- <https://www.bbc.co.uk/bitesize/topics/zy2mn39/articles/zc78srd> Here is a link to BBC bitesize, with a video and activities to support your subtractions.

Fluency

$$\begin{array}{r} 1 \quad 7894 \\ - 3918 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 7425 \\ - 6773 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 9882 \\ - 6443 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 6746 \\ - 5816 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 6873 \\ - 5175 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 7043 \\ - 5878 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 7861 \\ - 7200 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 9803 \\ - 1985 \\ \hline \\ \hline \end{array}$$

Struggling?

If you are not feeling confident exchanging, have a go at these questions.

$$\begin{array}{r} 1 \quad 8017 \\ - 5004 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 6276 \\ - 3153 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 8068 \\ - 2044 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 9894 \\ - 8452 \\ \hline \\ \hline \end{array}$$

Reasoning- missing number

1*

1.

$$\begin{array}{r} 5 \square 3 0 \\ - 3 9 2 \\ \hline 5 1 3 8 \end{array}$$

2.

$$\begin{array}{r} 5 6 2 5 \\ - \square 5 8 \\ \hline 5 4 6 7 \end{array}$$

3.

$$\begin{array}{r} 9 9 1 9 \\ - 5 \square 0 \\ \hline 9 3 2 9 \end{array}$$

2*

4.

$$\begin{array}{r} 3 9 \square 3 \\ - \square 1 0 \\ \hline 3 4 2 3 \end{array}$$

5.

$$\begin{array}{r} 3 4 9 \square \\ - 8 \square 5 \\ \hline 2 6 1 5 \end{array}$$

6.

$$\begin{array}{r} 4 \square 9 8 \\ - 4 1 \square \\ \hline 4 4 8 7 \end{array}$$

3*

7.

$$\begin{array}{r} 7 \square 0 9 \\ - 6 \square \square \\ \hline 6 5 3 2 \end{array}$$

8.

$$\begin{array}{r} 6 8 \square \square \\ - \square 7 1 \\ \hline 6 0 3 7 \end{array}$$

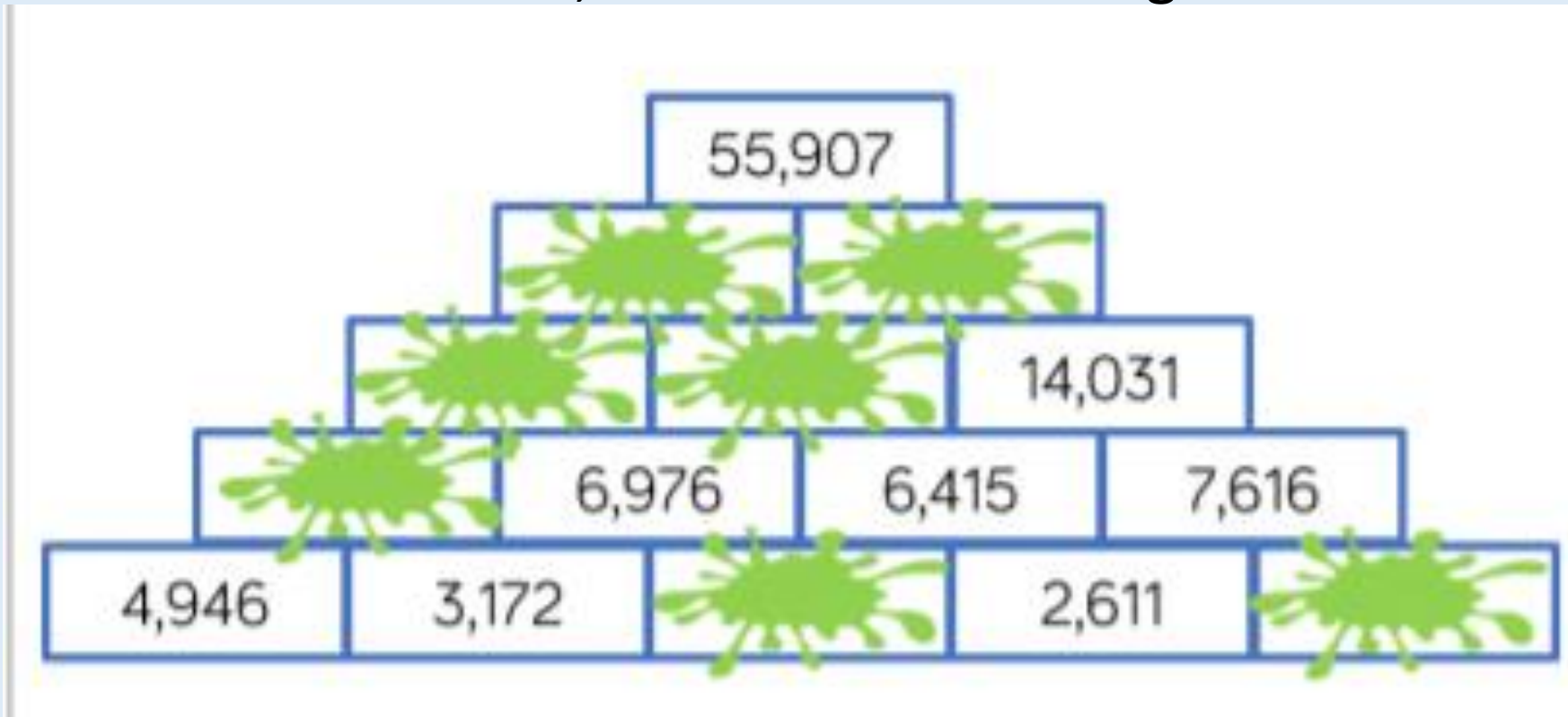
9.

$$\begin{array}{r} 6 \square 2 3 \\ - 2 \square \square \\ \hline 5 8 7 7 \end{array}$$

These can be difficult, starting at number 1 is a good way for all to have a go regardless of which difficulty you choose.

Plenary- number pyramid

In a number pyramid, the two boxes will add up to the single box above it, using addition and subtraction, work out the missing numbers.



Answers

Fluency with exchanging

question	
1	3976
2	652
3	3439
4	930
5	1698
6	1165
7	661
8	7818

Fluency **without** exchanging

Question	
1	3013
2	3123
3	6024
4	1442

Reasoning missing number

Question	Answer
1	5
2	1
3	9
4	3, 5
5	0, 7
6	8, 1
7	2, 7, 7
8	0, 8, 7
9	1, 4, 6