

Use decomposition to subtract pairs of 5-digit numbers.

$$\begin{array}{r} 86072 \\ - 32537 \\ \hline \end{array}$$

Can you spot where a 10, 100, 1000 or 10,000 will have to be moved?

The 'top' number has a zero so we will definitely have to move a 1000 to the 100s column. A 10 will also need to be moved into the ones column as 2 is less than 7.

	5000	1000	60	12
80,000	6000	0	70	2
- 30,000	2000	500	30	7
<hr/>				
50,000	3000	500	30	5
<u>53,535</u>				

	5	10	6	12
8	6	0	7	2
- 3	2	5	3	7
<hr/>				
5	3	5	3	5



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$$40,178 - 35,423$$

We have
any 10
We first
th

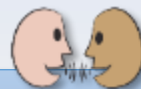
We have 100 - 400 but don't have
any 1000s that we can move!
We first need to move 10,000 from
the 10,000s column.

	9000									
30,000	10,000	1100				9				
40,000	0	100	70	8		3	10	11		
- 30,000	5000	400	20	3		- 3	0	1	7 8	
0	4000	700	50	5		4	7	5	5	
<u>4755</u>										



Choose **decomposition** or **counting up** to subtract pairs of 5-digit numbers.

$$\begin{array}{r} 30008 \\ - 25783 \\ \hline \end{array}$$



What moves across place value columns would be necessary for this subtraction?

We would have to move a 10,000 to the 1000s, then a 1000 to the 100s and then a 100 to the 10s!
When we have this many moves to make, using 'Frog' (counting up) would probably be a less error-prone strategy!

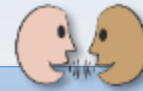
Frog is using the pair to 1000 to make the first hop.

Where will Maths Frog hop to next?



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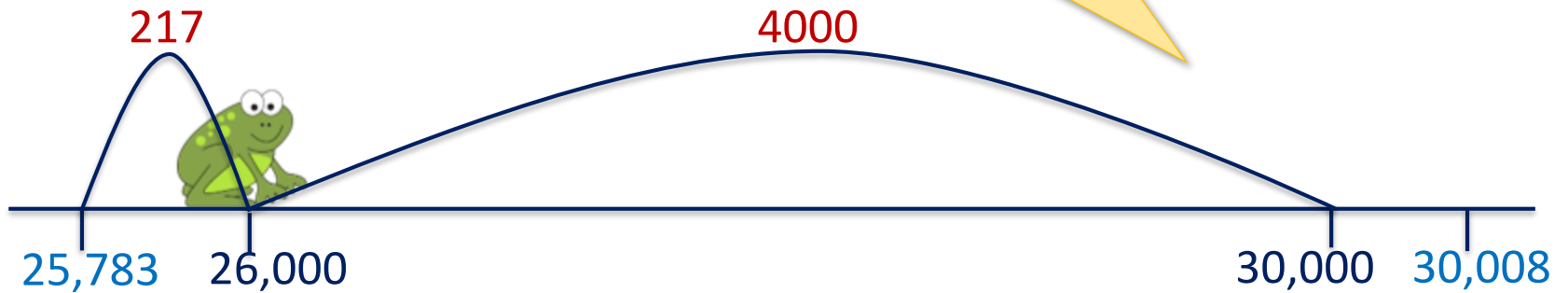


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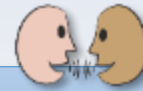
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Frog is using the pair to 1000 to make the first hop.

$$30,008 - 25,783 = 4000 + 217 + 8 = 4225$$

Where will Maths Frog hop to next?

More efficient with Frog!

