

Discussion Problems

Step 3: Add Two 4-Digit Numbers 2

National Curriculum Objectives:

Mathematics Year 4: (4C2) [Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate](#)

About this resource:

This resource has been designed for pupils who understand the concepts within [this step](#). It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

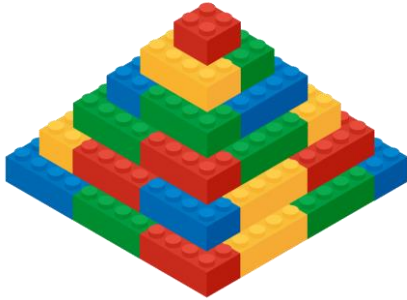
We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More [Year 4 Addition and Subtraction](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Add Two 4-Digit Numbers 2

1. Six children are taking part in a national model building competition. They need to work in pairs to build their final model and need between 6,500 and 7,500 building bricks.



Jamie

3,116



Harriet

3,405



Kevin

4,125



Heather

4,173



George

3,328



Tom

3,228

Which children could work together in pairs?

DP

2. Arrange the digit cards below to make two 4-digit numbers which can be added together to make a total less than 10,000.

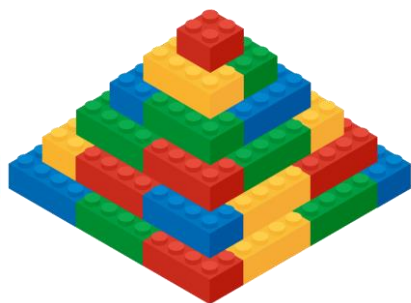


Investigate the calculations you can make where there is only one exchange needed.

DP

Add Two 4-Digit Numbers 2

1. Six children are taking part in a national model building competition. They need to work in pairs to build their final model and need between 6,500 and 7,500 building bricks.



Jamie

3,116



Harriet

3,405



Kevin

4,125



Heather

4,173



George

3,328



Tom

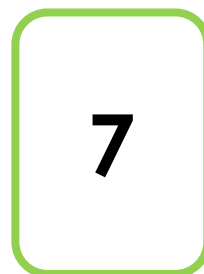
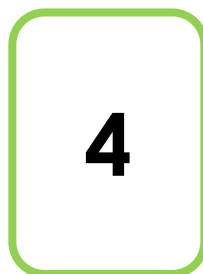
3,228

Which children could work together in pairs?

Various answers for example: Jamie and Heather, Jamie and Harriet, Jamie and Kevin, Harriet and George, Harriet and Tom, Kevin and George, Kevin and Tom, Heather and Tom, George and Tom.

DP

2. Arrange the digit cards below to make two 4-digit numbers which can be added together to make a total less than 10,000.



Investigate the calculations you can make where there is only one exchange needed.

Various answers, for example:

	3	2	4	7
+	2	3	4	7
<hr/>				
	5	5	9	4
<hr/>				
			1	

DP