

Discussion Problems

Step 10: Checking Strategies

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](#)

Mathematics Year 4: (4C3) [Estimate and use inverse operations to check answers to a calculation](#)

Mathematics Year 4: (4C4) [Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why](#)

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.

Checking Strategies

1. The grid below shows strategies to check the calculation in the middle. Circle the strategies that are the most efficient. Discuss the reasons why some are not efficient.

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Add two efficient checking strategies that you think would be suitable.

DP

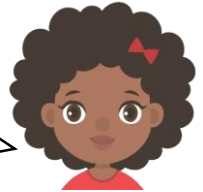
2. Work out each child's starting number based on their statements below.



Timothy

I started with 2,419 less than Mia's starting number.

My starting number is between 3,700 and 3,750 more than Jacob's.



Mia



Lucy

My starting number is the difference between Mia's and Jacob's.

I added a number between 1,300 and 1,350 to my starting number to find 6,532.



Jacob

DP

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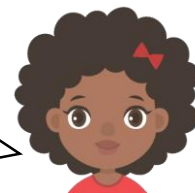
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Jacob

Various answers, for example; Jacob – 5,210, Mia – 8,950, Timothy – 6,531, Lucy – 3,740

DP