

How pupils solve problems in arithmetic

University of Illinois - Developing Number Fluency



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How pupils solve problems in arithmetic

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Example Problems in Arithmetic Sequence

Students need to be flexible in order to choose an appropriate strategy for the numbers involved, and also be able to use one method to solve a problem and another method to check the results. By training pupils to ask this when presented with word problems themselves, they quickly become independent at drawing bar models. If objects from two sets can be matched in such a way that every element from each set is uniquely paired with an element from the other set, the sets are said to be equal or equivalent.

Educational Research and Reviews

It is not simply children sharing how they did a particular calculation, but describing why and how it worked, and how their method is the same or different to those of others. When this happens the students will be able to make the problem more simple by dividing it into smaller and easiest steps, such as rewording the problem using smaller numbers.

Developing Number Fluency

The mastery approach encourages exploring the breadth and depth of these concepts once fluency is secure through reasoning and problem solving.

Developing Number Fluency

Solve an easier version Sometimes the problem is too difficult to solve in one step. This year children will be presented with a variety of problems, including 2-step problems and be expected to work out the appropriate method required to solve each one.

Mathematics Through Problem Solving

Guess and check The guess and check strategy can be helpful for many types of problems.

Example Problems in Arithmetic Sequence

Answer: 108m Ratio word problem Year 6 crossover with measurement A local council has spent the day painting double yellow lines.

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