Can I use a written method to subtract?

Teaching guidance

Key vocabulary

subtract, find the difference, minus, take away, more than, less than calculate, count on, count back

Models and images

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Bead strings and number lines help provide a visual representation of the strategy the children have used, for example:

$$1470 - 174 = 1296$$



Make links between the steps on a number line and expanded forms of the written algorithm, for example:

These algorithms can be refined over time to become more efficient.

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Overcoming barriers in mathematics – helping children move from level 3 to level 4

Teaching tips

- Encourage children to use mental methods of calculation where appropriate. For
 calculations they cannot do in their heads, ensure they can use an efficient written method
 accurately and with confidence.
- Practise and secure children's mental methods of calculation alongside teaching written methods in order to ensure that children can:
 - draw on mental calculation skills and number facts within their written methods;
 - make judgements about which approach is most appropriate for a particular calculation.
- To subtract successfully and efficiently, children need to be able to:
 - recall all addition and subtraction facts to 20;
 - quickly derive complements to 10 and 100 and multiples of 10 and 100;
 - subtract multiples of 10, such as 160 70 (using the related subtraction fact 16 7, and their knowledge of place value);
 - partition two-digit and three-digit numbers into multiples of one hundred, ten and one in different ways (e.g. partition 74 into 70 + 4 or 60 + 14).
- Ensure that written methods are developed systematically and practised and consolidated so that children always have approaches to fall back on if they have difficulty with a more compact method.
- Help children to take ownership of written methods, for example, by having a 'my method for subtraction' card that travels between home and school.
- Ensure that children experience clear progression and a consistent approach to the teaching of calculation strategies throughout the school.

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