

## Step back

## Purpose

To understand and use the strategy of jumping ten and then stepping back one

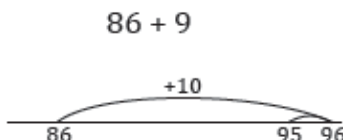
## Outcomes

NS1.2: Uses a range of mental strategies and informal recording methods for addition and subtraction involving one- and two-digit numbers

**MA1- 5NA**

## Framework reference


To move students to Place value level 2

	Outline	Questions
Introduction	<p>Write on the board:</p> $86 + 9$ <p>Establish the correct answer with the class.</p> <p>Have some of the students record their solution strategies on the board.</p> <p>If no student suggests jumping ten and then stepping back one, draw on the board the following diagram:</p>  <p>Have the students work in pairs and discuss which operations are represented by the diagram.</p> <p>If needed, prompt students to reflect upon other numbers that could be added to 86 using this method.</p> <p>If the students are unable to give this method a name, suggest calling it the <i>Step back method</i>.</p>	<p><i>What is the answer to this question?</i></p> <p><i>How did you work out the answer?</i></p> <p><i>Why is this method easy to use?</i></p> <p><i>With which numbers would you use this method? Why?</i></p> <p><i>With which numbers wouldn't you use this method? Why?</i></p> <p><i>What could this method be called?</i></p>



## TAKING OFF WITH NUMERACY

**<www.takingoffwithnumeracy.com.au>**

	Outline	Questions
Concept development	<p>Write on the board:</p> $47 + 10$ $47 + 9$ <p>Select a student to draw the diagram on the board.</p> <p>Repeat the process with the following additions:</p> $74 + 20$ $74 + 19$ <p>Write on the board:</p> $37 + 19$ <p>Provide the students with paper and pens. Have them work in pairs to use the <i>Step back method</i> to represent the solution on an empty number line and determine the answer.</p> <p>Select one or two students to share their recordings and solutions.</p> <p>Have each student write two or three additions that could be solved using the <i>Step back method</i> and swap these with a partner. </p> <p>Have each student solve the additions provided by his or her partner.</p>	<p><i>How would you use the first addition to solve the second one?</i></p> <p><i>How would you draw this solution method on an empty number line?</i></p> <p><i>What other additions could you solve using the Step back method?</i></p> <p><i>How did you solve the additions?</i></p> <p><i>Did you need to represent the method on an empty number line to solve the addition?</i></p> <p><i>Why?</i></p>



