# Addition and Subtraction: Add Two 2-Digit Numbers, Not Crossing 10 


#### Abstract

Aim: Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers

DfE Ready-to-Progress Criteria: Add and subtract within 100 by applying related one digit addition and subtraction facts: add and subtract any 2 two digit numbers. (2 AS-4)

To add two 2-digit numbers by adding the ones (not crossing 10) and the tens.


## Success Criteria:

I can add ones not crossing ten.
I can use number facts to add two 2-digit numbers.
I can use a number line to add two 2-digit numbers.

## Key/New Words:

Closest to, closer to, higher than, lower than, highest, lowest, between, number facts, calculation, add, addition, plus, count forward, count on, number line, tens, ones, 2-digit 1-digit, steps, multiples of ten, keep track, explain, prove, reason, represent, patterns, continue a pattern.

Resources:
Lesson Pack
Representations of tens and ones if required

## Preparation:

Scoring Points Activity Sheets - one per child

Diving into Mastery Activity Cards - as required

Blank Number Lines - as required

## Learning Sequence

Remember It: Class teams take turns to pick a card on the Lesson Presentation. When each group has
two cards, they add the two numbers to find the total. The team with the closest value to 20 wins a point.
They then replay the game. Encourage children to recall where some of the numbers are to help them
reach their target. This information can also be used to block their opposing teams. This game can be

revisited with a different target number. | How Would You Add? Look at the two numbers on the Lesson Presentation. Invite the children to use |
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| these to make an addition calculation. Ask the children to explain their reasoning as they choose which |
| number they would prefer to start with. This is then demonstrated on an empty number line. The number |
| with the greatest value is used as the starting point. There are now fewer steps to count on. |

Diving into Mastery: Schools using a mastery approach may prefer to use the following as an alternative.
These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper'
section and others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill
and are applying this to show their depth of understanding.

## Exploreit

Colourit: Practise addition skills with this $\qquad$ .
Playit: Play games in PE which involve addition, similar to the hoop game. Children can choose different numbers to put in the hoops.
Rollit: Children roll four dice to make two two-digit numbers which they add to get as close to the target number as possible. Target numbers could be $10,20,60$ or 100 .
Learnit: Children will find this visually exciting a useful tool to support addition and subtraction skills.

