

## Make 100

*Given a pattern of four one-digit numbers, children attempt to make a total of exactly 100.*

## Skill practised:

- Adding pairs of two-digit numbers mentally, using an appropriate strategy, e.g. partitioning and recombining, doubling/near doubling, adding the nearest multiple of ten and adjusting

*Conjecture: It is possible to add four two-digit numbers - two of which have the same tens digit and two of which have the same ones digit - to make a total of exactly 100.*

### What to do:

*Children work individually or in pairs.*

1. Look at this arrangement of numbers:

2	1
3	8

We will use these digits to give us four two-digit numbers:

- 21 (reading along the 1st row)
- 23 (reading down the left hand column)
- 38 (reading along the 2nd row)
- 18 (reading down the right hand column)

The total of the four numbers is **100**.

2. Find **four different digits** that give four two-digit numbers which **add to a total of 100**.
3. Can you find different ways of making 100? What have you learned to help you?

**HINT:** When trying new numbers, only change one at a time to see what effect it has on the answer. What do the 1s digits add up to in the example given?

### Aims:

- To add two-digit numbers.
- To solve problems by a process of trial and improvement.

### Minimum number of calculations expected

10-12

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