

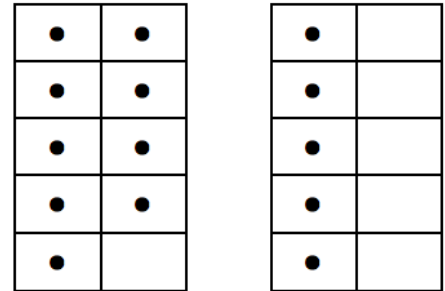
Bridge to groups of ten

This is a mental calculation strategy that can be used when adding two numbers. It is best if one number is close to a group of ten. eg 9 is close to 10 18 is close to 20 etc

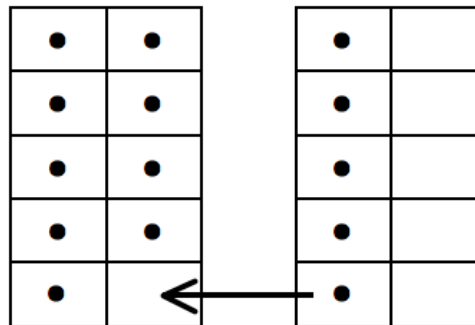
Here's how it works.

eg $9 + 5$

Imagine the numbers 9 and 5 represented by dots in trays like these.



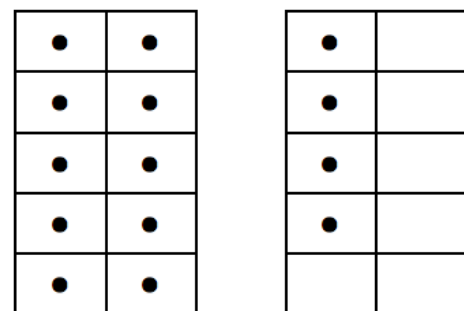
It will be easier to add the numbers mentally if we build (or bridge) to the nearest group of ten. So we imagine moving dots over to the tray which is closest to a group of ten. In this example we move a dot from the group of 5 over to the group of 9.



So instead of the addition question being $9 + 5$ it is now $10 + 4$.



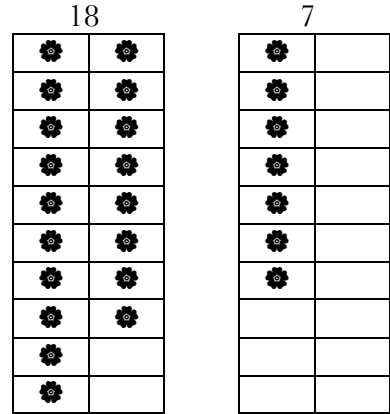
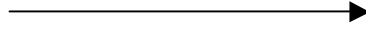
The answer is easy now. It's 14



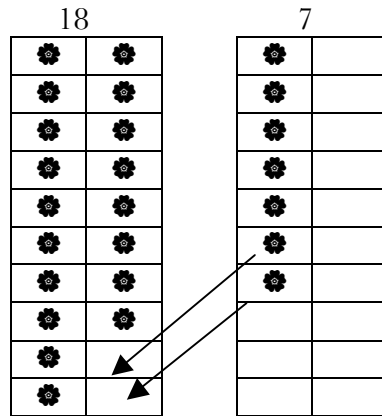
Here's another example:

$$18 + 7$$

Imagine the numbers 18 and 7 represented by dots in trays like these.



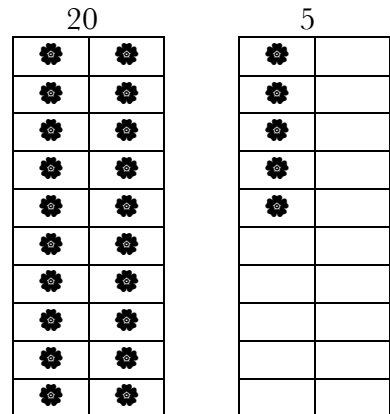
We imagine moving dots over to the tray which is closest to a group of ten. In this example we move two dots from the group of 7 over to the group of 18.



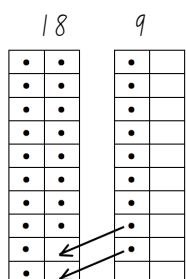
So instead of the addition question being $18 + 7$ it is now $20 + 5$.



The answer is easy now. It's 25

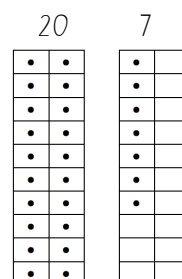


Bridge to groups of ten



Here's an example: $18 + 9$.
Bridging means to make a complete group of ten.

In this example we may choose to bridge to 20 by moving over two dots. So the question becomes $20 + 7$ which is 27



Here are some questions for you to try. You may like to use some counters and trays just like the example above.

$9 + 8 =$

$8 + 7 =$

$8 + 6 =$

$7 + 9 =$

$9 + 9 =$

$9 + 6 =$

$8 + 8 =$

$7 + 7 =$

$9 + 5 =$

$8 + 4 =$

$19 + 7 =$

$19 + 9 =$

$18 + 6 =$

$19 + 6 =$

$19 + 8 =$

$18 + 7 =$

$17 + 6 =$

$17 + 9 =$

$18 + 9 =$

$19 + 13 =$

Name:

Bridge to groups of ten

Use these trays and counters for adding two single digit numbers.

(for example, $9 + 7$)

Name:

Bridge to groups of ten

Use these trays and counters for adding two numbers that are both under 20 (for example, $19 + 8$)

