## Palindromic Numbers

5

Look at these car number plates. The number parts are all **Palindromes** — they read the same backwards as forwards.

• PIJ 626 •



•KDZ 8668•

•SIB 2002 •

Write down some palindromic numbers between 100 and 500.

## STEPS TO PALINDROME

- Start with a 2-digit number: example 63.
- Reverse the digits and add:

If the sum is not a palindrome, keep reversing the digits and adding.

This is a THREE step palindrome

- Try other 2-digit numbers and see how many steps they take.
- ·How will you record your results?
- Do all 2-digit numbers become palindromes?
- Try some 3-digit numbers. Use a calculator.

## EXTRA IDEAS

- •Investigate palindromic **DATES**. Example 30/11/03 How many can you find in the "noughties" decade?
- •Investigate palindromic TIMES. Example 9:39 SEELB Maths Team you find?