One day our teacher asked us a puzzling question:


## Can you find a special number? <br> Can you find more than one? <br> Can you find them all?

## There are other sorts of special two-digit numbers...

- I add twice the tens digit to the units digit, then add this to the product of the digits. I get back to my original number.
- I add three times the tens digit to the units digit, then add this to the product of the digits. I get back to my original number.
- I add four times... or five times... or...

Can you use algebra to help you to find these special numbers?

