Magic Maths

1) Start with a 3 digit number. It needs to have 3 DIFFERENT DIGITS.

E.g. 630

2) Reverse the digits.

E.g. 630 becomes 036

3) Subtract the SMALLER number from the BIGGER number.

E.g.

630

- <u>036</u>

594

4) Reverse the digits of your answer.

E.g. 594 becomes 495

5) Add those two numbers together.

E.g.

594

+ 495

- 6) What answer did you get?
- 7) Try it again with a different 3 digit number. What do you notice?
- 8) Try it a third time with another 3 digit number. What happens this time?
- 9) Does this always happen?
- 10) This video might explain why it happens . . . https://www.youtube.com/watch?v=O9VIVtM5wCY

Extension

Try the same thing with 4 digit numbers. What happens this time?