



MAGICAL MULTIPLYING



Ask a friend to think of a 3 digit number.



Ask the same friend to multiply the number by 7, 11 and 13.


$$??? \times 7 \times 11 \times 13$$

Ask them to tell you the answer. You know the original number they chose as it is repeated twice in the answer!



$$123 \times 7 \times 11 \times 13 = 123,123$$



ALWAYS 1089

Write 1089 on a piece of paper, fold it up and give it to a friend..



Ask the friend to write down a 3 digit number where the first and last numbers are different. eg. 345

Ask them to reverse the number and subtract the smaller number from the bigger number.



$$543 - 345 = 198$$

Tell them to reverse that new answer and add the two numbers together.

$$891 + 198 = 1089$$




The answer should be 1089!

One small rule..

If the subtraction in step 3 results in a 2 digit number, you need to add a 0 to the start. So 99, becomes 099 and reversing it makes 990.



SCIENCE
SPARKS

