

## Number Magic Trick

Here is an interesting number trick.

Step		Example
1	Write down <b>any</b> three-digit number.	567
2	Write the same number in front of the first number, to make a six-digit number.	567 567
3	Using a calculator, divide this six-digit number by 7. I guarantee it will divide evenly.	$567\ 567 \div 7 = 81081$
4	Using a calculator, divide the answer by 11. Again, I guarantee it will divide evenly.	$81081 \div 11 = 7371$
5	Using a calculator, divide the last answer by 13.	$7371 \div 13 = 567$

Are you surprised? Can you figure out why this trick always works?