

MR. MAGORIUM'S
WONDER EMPORIUM

MATHS





AMAZING RECURRING NUMBERS

This trick will help you practice your 9 times table and astound your friends at the same time!

1. Write down this number on a piece of paper: **12345678**.
2. Ask a friend to circle a digit of their choice.
3. Whichever number they choose, **multiply it by 9** in your head. For example, if they choose 4, multiply by 9 to get 36.
4. Give your friend the answer.
5. Now tell your partner to **multiply their answer by 12345678** using a calculator. Amazingly, their answer will always be a recurring number of the one they originally circled!

3 IS THE MAGIC NUMBER!

No matter what number your friends start with, the answer will always be 3. Put it to the test!

1. Tell your friend to **think of a number** but not to tell you.
2. Ask them to **double their answer**.
3. Then get them to **add 6**.
4. Now tell them to **divide their answer by 2**.
5. Finally, ask them to **take away the number** they started with.
6. Tell them their **answer is 3** and watch their reaction!

