

# Quick and accurate mental arithmetic tips make you surprised

Math is a logical and logical science subject, but even so there are many tips to simplify the problem as if it is super hard and troublesome. The logic of mathematics sometimes takes us by surprise!

The numbers all have a specific rule, if we know and remember those rules, the calculation will become "as easy as hand". Historically it has recorded many "holy" mental arithmetic that make the whole world respect.

**Alexis Lemaire** , "the robot" is known for the world's No. 1 quick mental arithmetic. In 2007, at the Museum of Scientific History in London, England, he calculated the 13th root of a 200-digit number in a record time of 70.2 seconds. To this day, the "divine" calculation of the French man is still a milestone for many people to reach.

In order to achieve that "horrific" achievement, in addition to the "giant" brain with superhuman memory, Alexis Lemaire's quick calculation also plays an extremely important role.

So the quick mental arithmetic of the guy born in 1980 has nothing special, but even the mathematical genius is interesting and admirable. Learn and learn the 9 strange calculation tips below, maybe you will break Alexis Lemaire's record.

**With multiplication table of 9**

$9 \times 1 = 09$	$9 \times 10 = 90$
$9 \times 2 = 18$	$9 \times 9 = 81$
$9 \times 3 = 27$	$9 \times 8 = 72$
$9 \times 4 = 36$	$9 \times 7 = 63$
$9 \times 5 = 45$	$9 \times 6 = 54$
$9 \times 6 = 54$	$9 \times 5 = 45$
$9 \times 7 = 63$	$9 \times 4 = 36$
$9 \times 8 = 72$	$9 \times 3 = 27$
$9 \times 9 = 81$	$9 \times 2 = 18$
$9 \times 10 = 90$	$9 \times 1 = 09$

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Bạn có thấy các con số kết quả (màu đỏ) đảo chiều không?

$9 \times 1 = 09$
$9 \times 2 = 18$
$9 \times 3 = 27$
$9 \times 4 = 36$
$9 \times 5 = 45$
$9 \times 6 = 54$
$9 \times 7 = 63$
$9 \times 8 = 72$
$9 \times 9 = 81$
$9 \times 10 = 90$

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Và chữ số đầu ở kết quả (màu xanh) cũng tăng dần (từ 0 đến 9) theo số mà số 9 nhân (từ 1 đến 10).

**"Triangle" calculation of number 1**

$$\begin{aligned}
 1 \times 1 &= 1 \\
 11 \times 11 &= 121 \\
 111 \times 111 &= 12321 \\
 1111 \times 1111 &= 1234321 \\
 11111 \times 11111 &= 123454321 \\
 111111 \times 111111 &= 12345654321 \\
 1111111 \times 1111111 &= 1234567654321 \\
 11111111 \times 11111111 &= 123456787654321 \\
 111111111 \times 111111111 &= 12345678987654321
 \end{aligned}$$

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### "Triangle" calculation of number 8

$$\begin{aligned}
 1 \times 8 + 1 &= 9 \\
 12 \times 8 + 2 &= 98 \\
 123 \times 8 + 3 &= 987 \\
 1234 \times 8 + 4 &= 9876 \\
 12345 \times 8 + 5 &= 98765 \\
 123456 \times 8 + 6 &= 987654 \\
 1234567 \times 8 + 7 &= 9876543 \\
 12345678 \times 8 + 8 &= 98765432 \\
 123456789 \times 8 + 9 &= 987654321
 \end{aligned}$$

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### How to quickly calculate 2 multiplication 2-digit numbers

$56 \times 54 = 3024$   
 $21 \times 29 = 609$

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**Methods of mental arithmetic with numbers 11**

$63 \times 11 = 693$

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How to practice it!

$$63 \times 11 = 693$$

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$$13432 \times 11 = 147752$$

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Chỉ việc giữ nguyên số đầu (số 1) và số cuối (số 2), rồi tiến hành cộng các con số trong 13432 khi nhân với 11 là ta đã có kết quả.

## Multiplication of number 97

$$97 \times 97 = 9409$$

$$97 = 100 - 3$$

$$97 - 3 = 94 \quad 3 \times 3 = 9$$

$$9409$$

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### Method of adding two fast fractions

$$\frac{1}{7} + \frac{1}{6} = \frac{7 + 6}{7 \times 6} = \frac{13}{42}$$

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