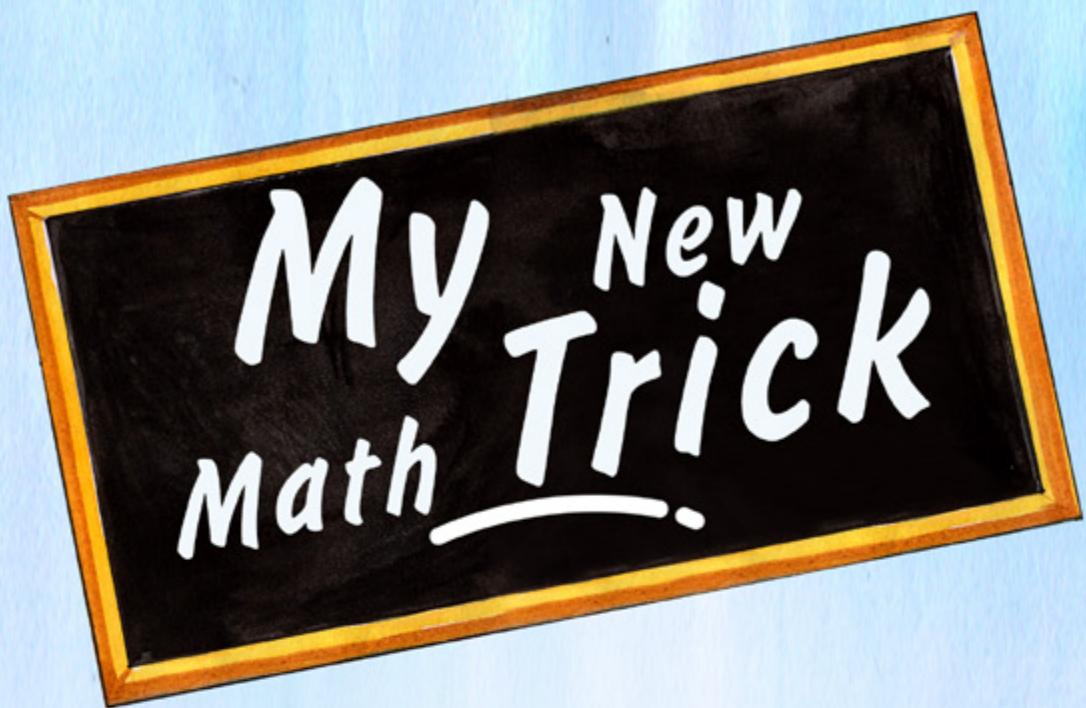


# My New Math Trick

By T. Albert  
Illustrated by: [maaillustrations.com](http://maaillustrations.com)





This book is intended for any youngster (or maybe adult) who wants to overcome the challenge of the basic Times 9 Table or wants to be able to multiply two-digit numbers by 11 in their head. Yes, it takes a little practice but there are a couple of tricks to make it easier. Now, in 5 seconds, without the use of a calculator, or pencil and paper, what does 11 times 98 equal? The trick, using simple addition, is in this book.



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Hi! My name is Mathew.

That's Mathew as is mathematics and  
you are going to learn some  
multiplication tricks.



Before I share the new tricks let's just review some other things to remember when multiplying.

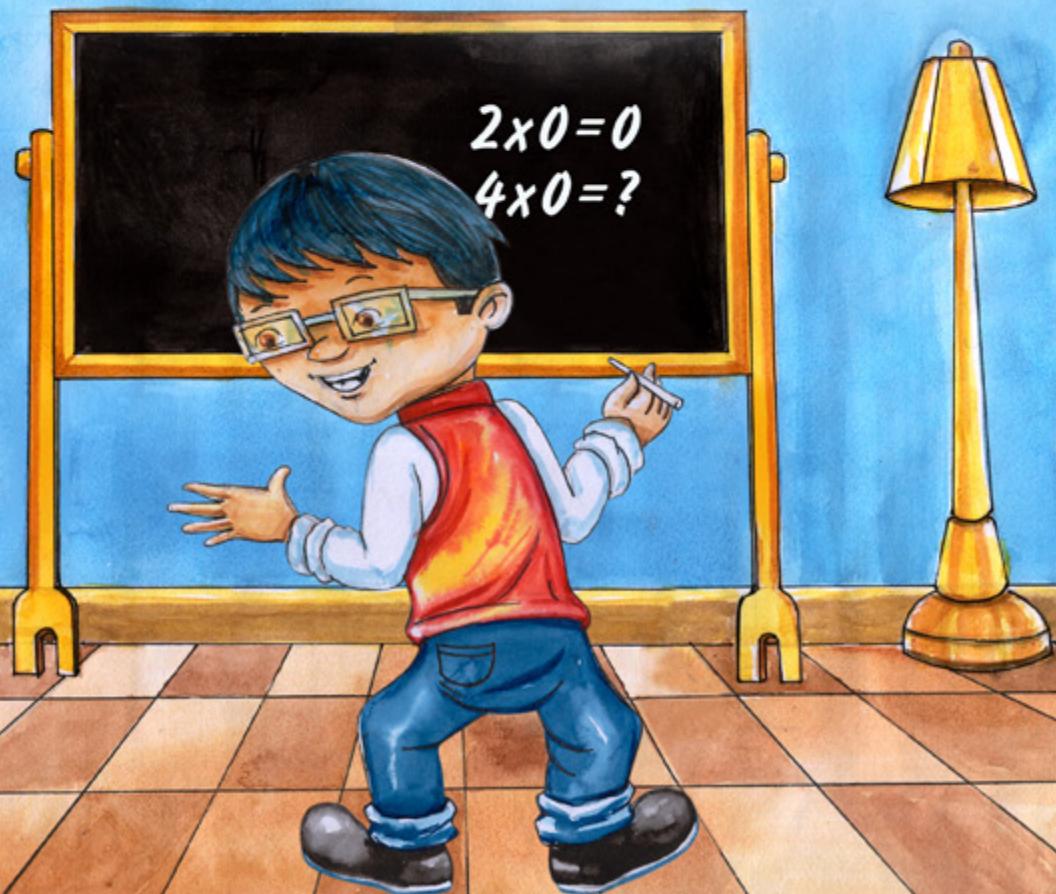


Remember 0 times anything is always equal to 0.

$$2 \times 0 = 0$$

Now it's your turn, quick! What is  $4 \times 0$ ?

That's right it's 0, good job

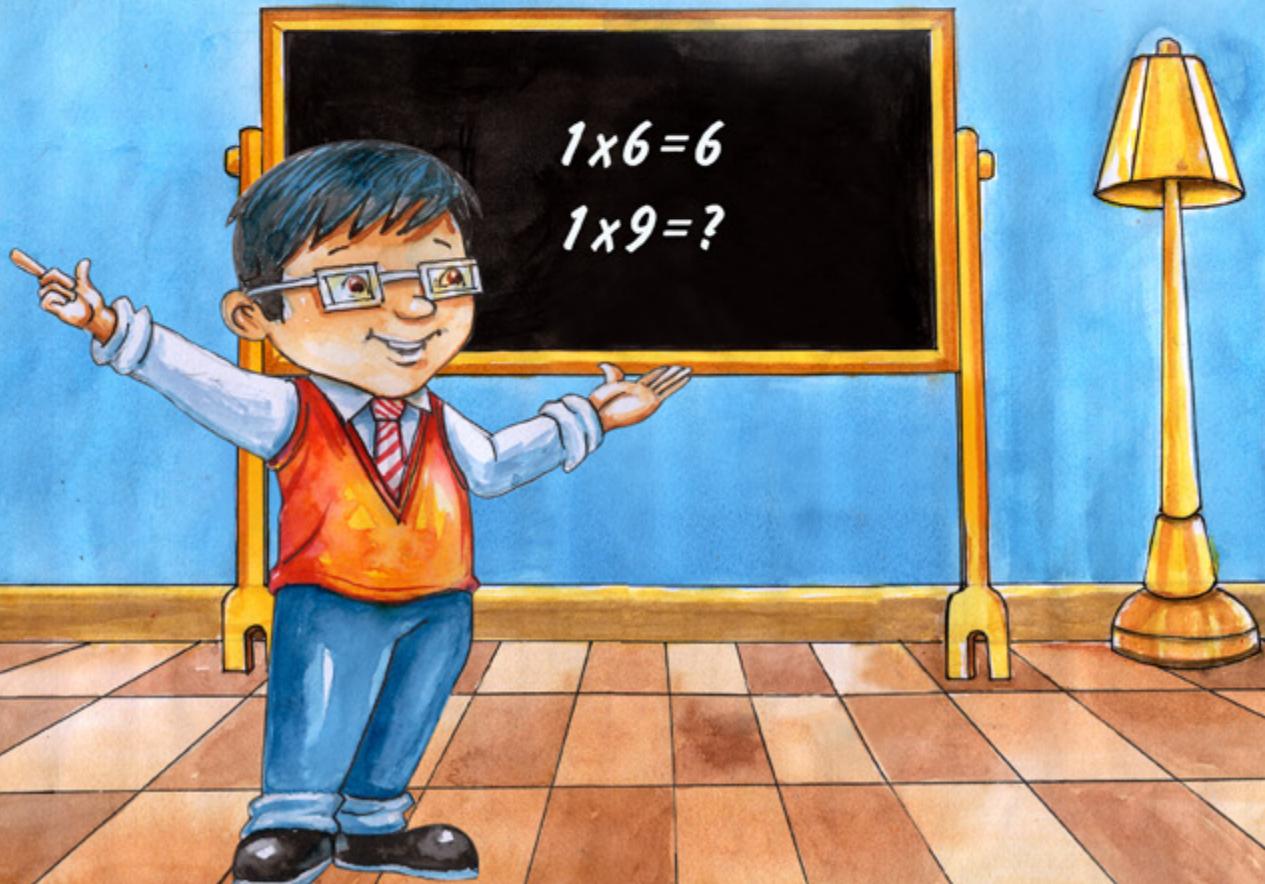


Remember 1 times anything is always equal to the "anything."

$$1 \times 6 = 6$$

Now it's your turn, quick! What is  $1 \times 9$ ?

Great work, you are correct it's 9.

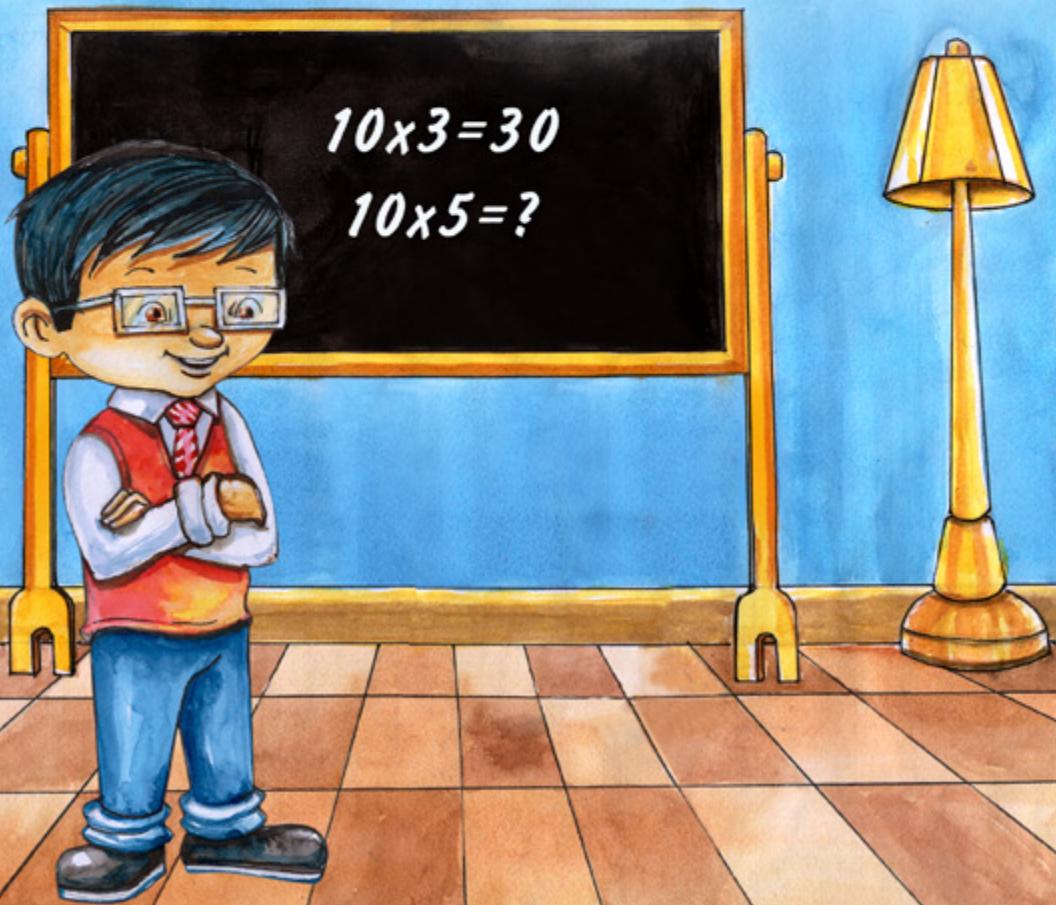


And of course you remember that 10 times anything is the "anything" with a 0 added at the end.

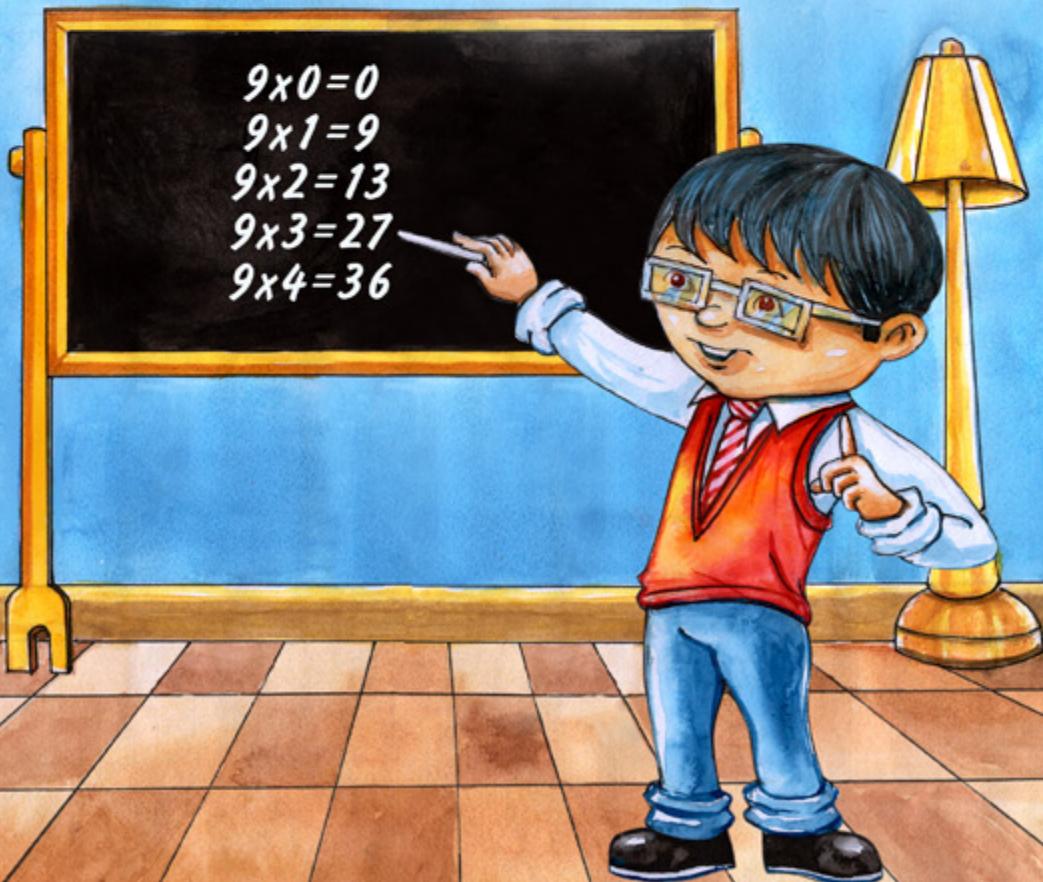
$$10 \times 3 = 30$$

What is  $10 \times 5$ ?

That's right. It is 50.

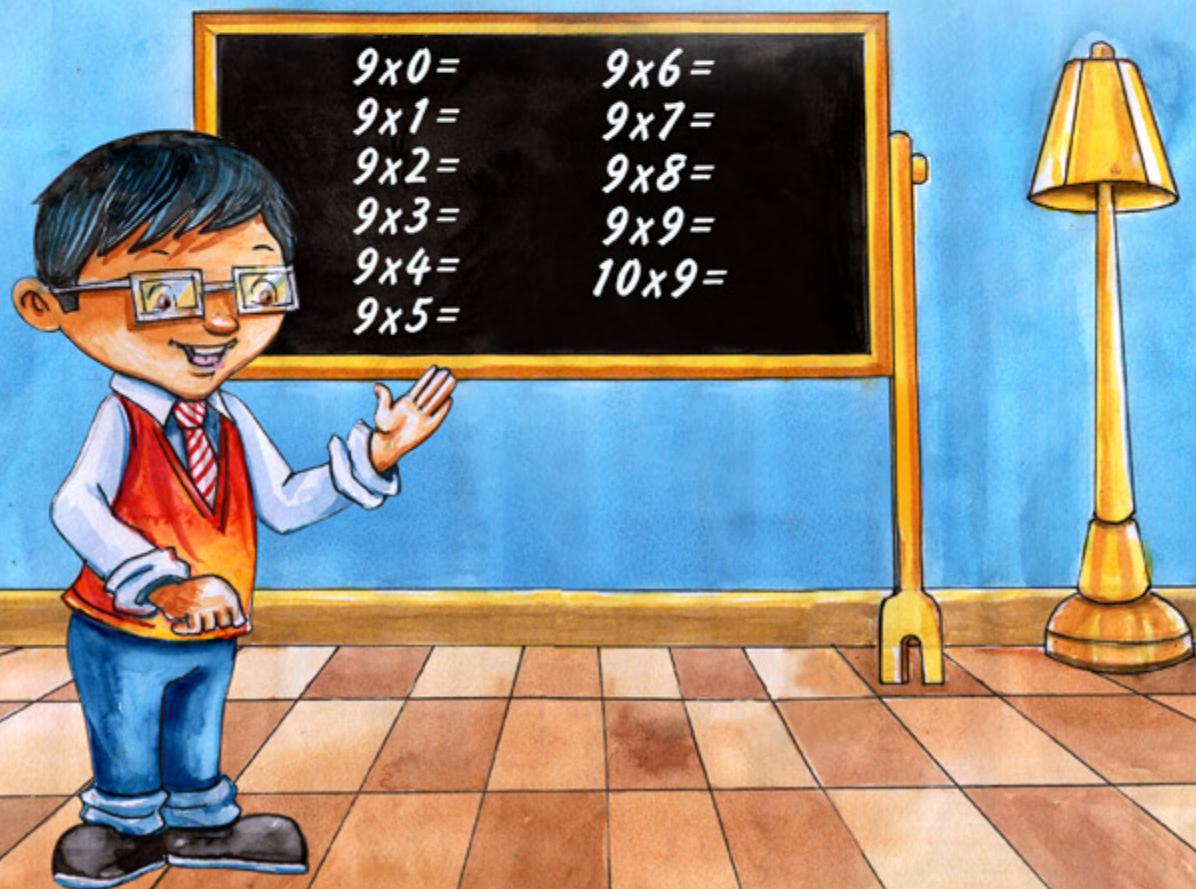


Now here is a trick you can use to help you with the Times 9 multiplication table for 9 x 0 through 9 x 10.



First write down the table:

$$\begin{aligned}9 \times 0 &= \\9 \times 1 &= \\9 \times 2 &= \\9 \times 3 &= \\9 \times 4 &= \\9 \times 5 &= \\9 \times 6 &= \\9 \times 7 &= \\9 \times 8 &= \\9 \times 9 &= \\10 \times 9 &= \end{aligned}$$



Next complete the table with the easy answers for Times 0, 1, and 10.

$9 \times 0 = 0$  (0 times anything always equals 0).  
 $9 \times 1 = 9$  (1 times anything always equals the anything).

$$9 \times 2 =$$

$$9 \times 3 =$$

$$9 \times 4 =$$

$$9 \times 5 =$$

$$9 \times 6 =$$

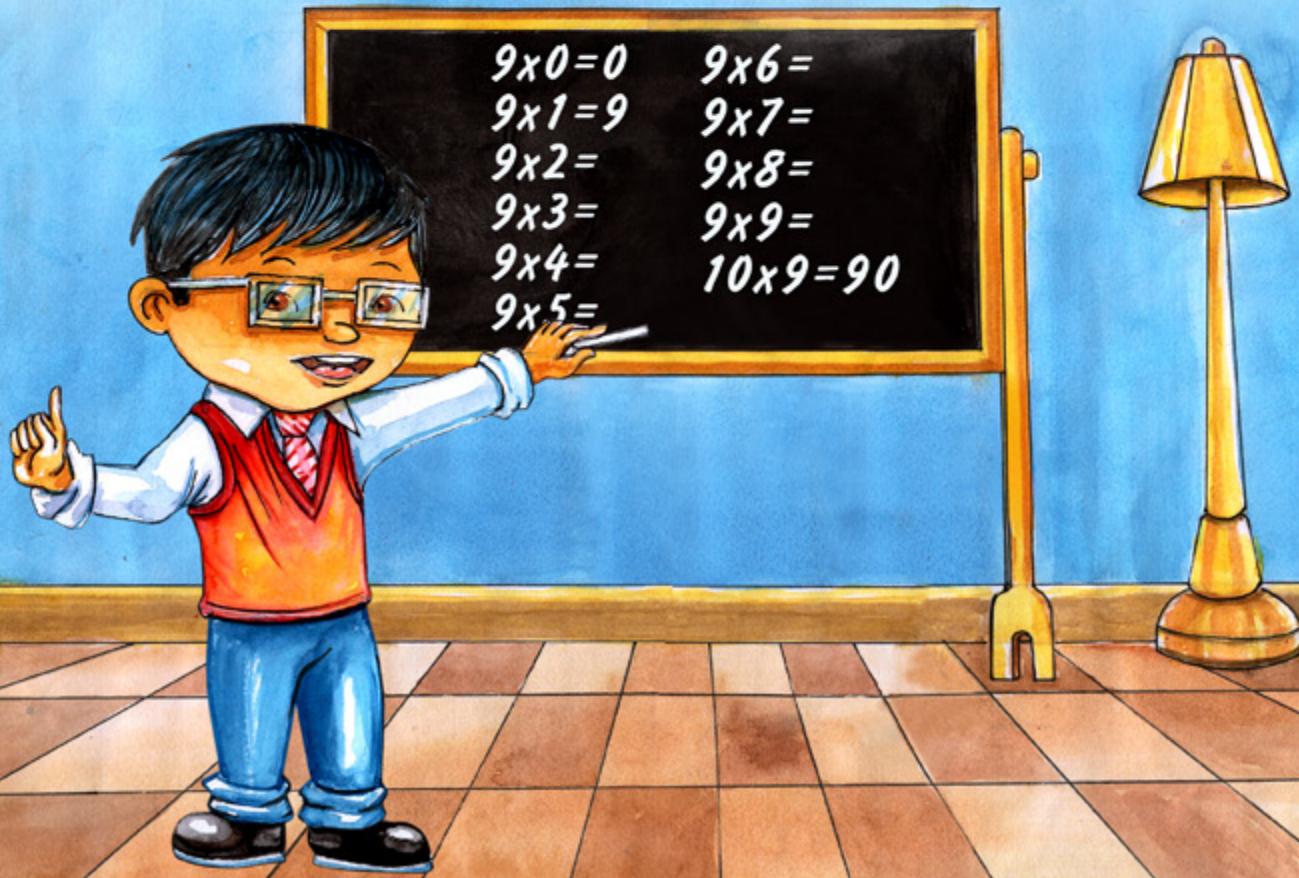
$$9 \times 7 =$$

$$9 \times 8 =$$

$$9 \times 9 =$$

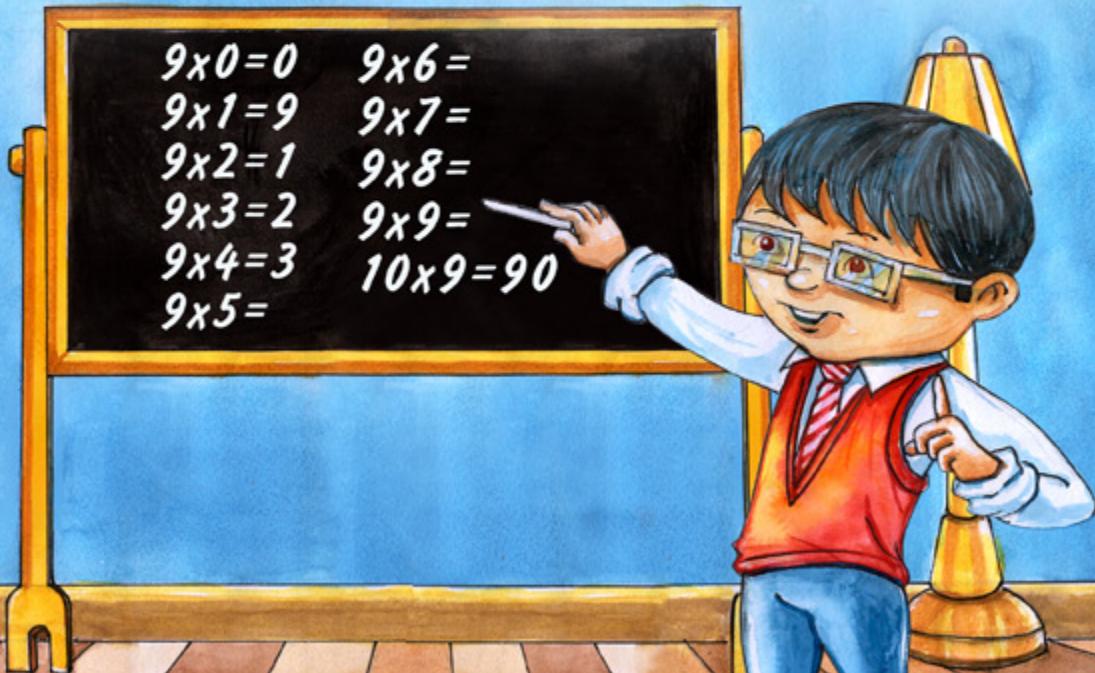
$10 \times 9 = 90$  (10 times anything equals the anything with 0 added to the end).

Simple enough, right?



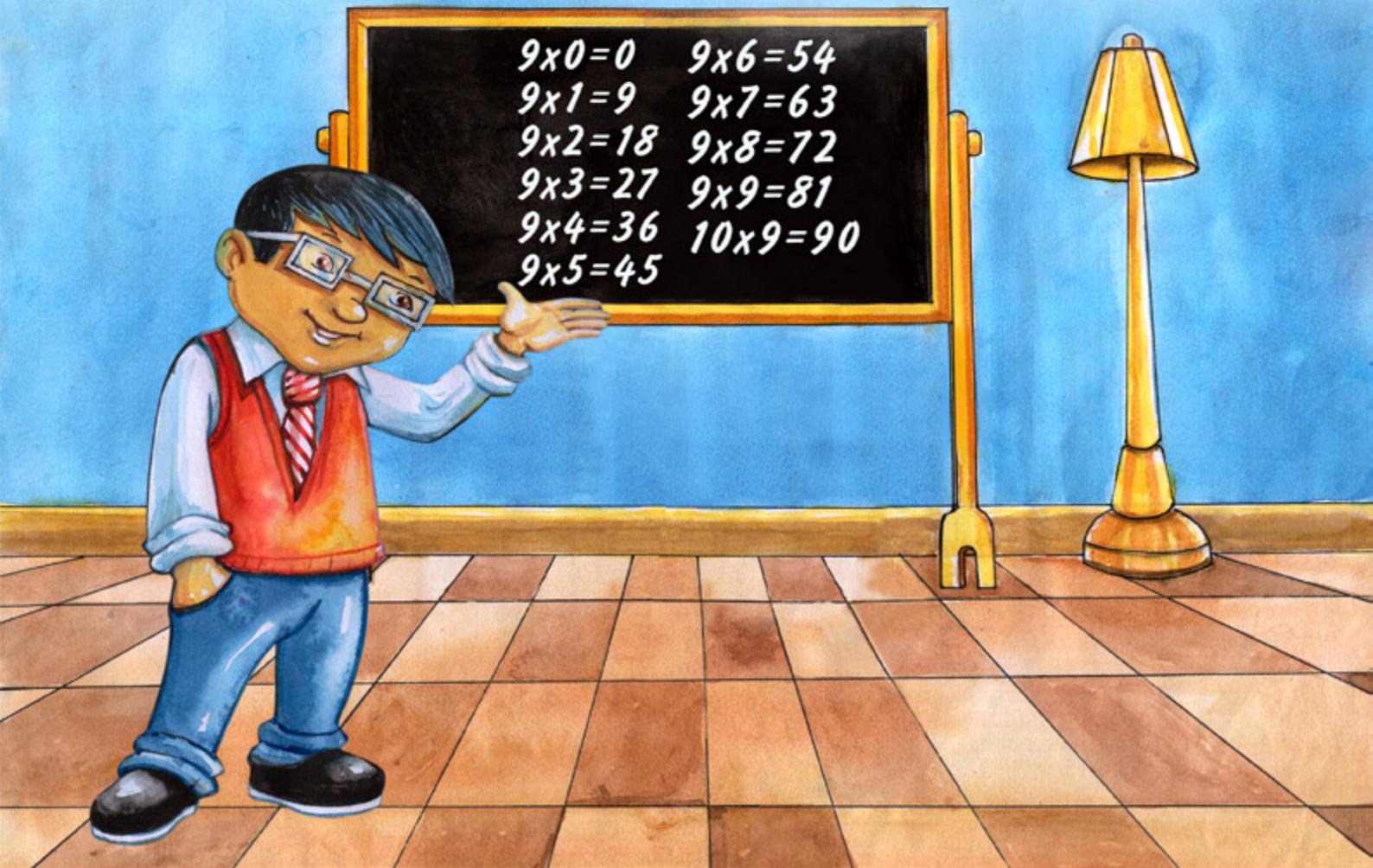
Next, pretend you don't know the answers to 9 X 2 through 9 X 9 and starting at the top (9 X 2) write the numbers 1 through 8 next to each.

$$\begin{aligned}9 \times 0 &= 0 \\9 \times 1 &= 9 \\9 \times 2 &= 18 \\9 \times 3 &= 27 \\9 \times 4 &= 36 \\9 \times 5 &= 45 \\9 \times 6 &= 54 \\9 \times 7 &= 63 \\9 \times 8 &= 72 \\9 \times 9 &= 81 \\10 \times 9 &= 90\end{aligned}$$

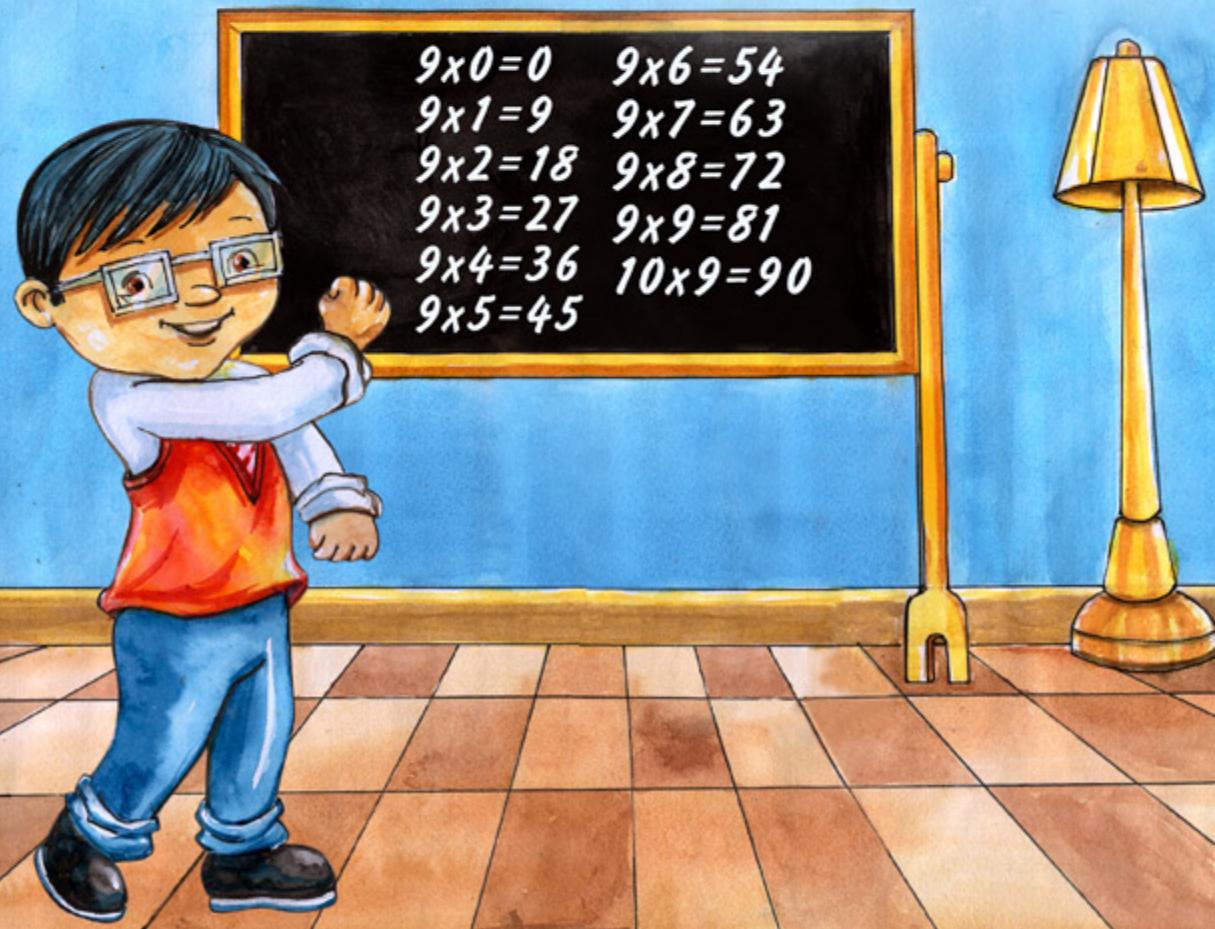


That was easy. Now do the same thing but start at the bottom ( $9 \times 9$ ).

$$\begin{aligned}9 \times 0 &= 0 \\9 \times 1 &= 9 \\9 \times 2 &= 18 \\9 \times 3 &= 27 \\9 \times 4 &= 36 \\9 \times 5 &= 45 \\9 \times 6 &= 54 \\9 \times 7 &= 63 \\9 \times 8 &= 72 \\9 \times 9 &= 81 \\10 \times 9 &= 90\end{aligned}$$



Success! You can easily write down the Times  
9 multiplication table for 0 through 10.

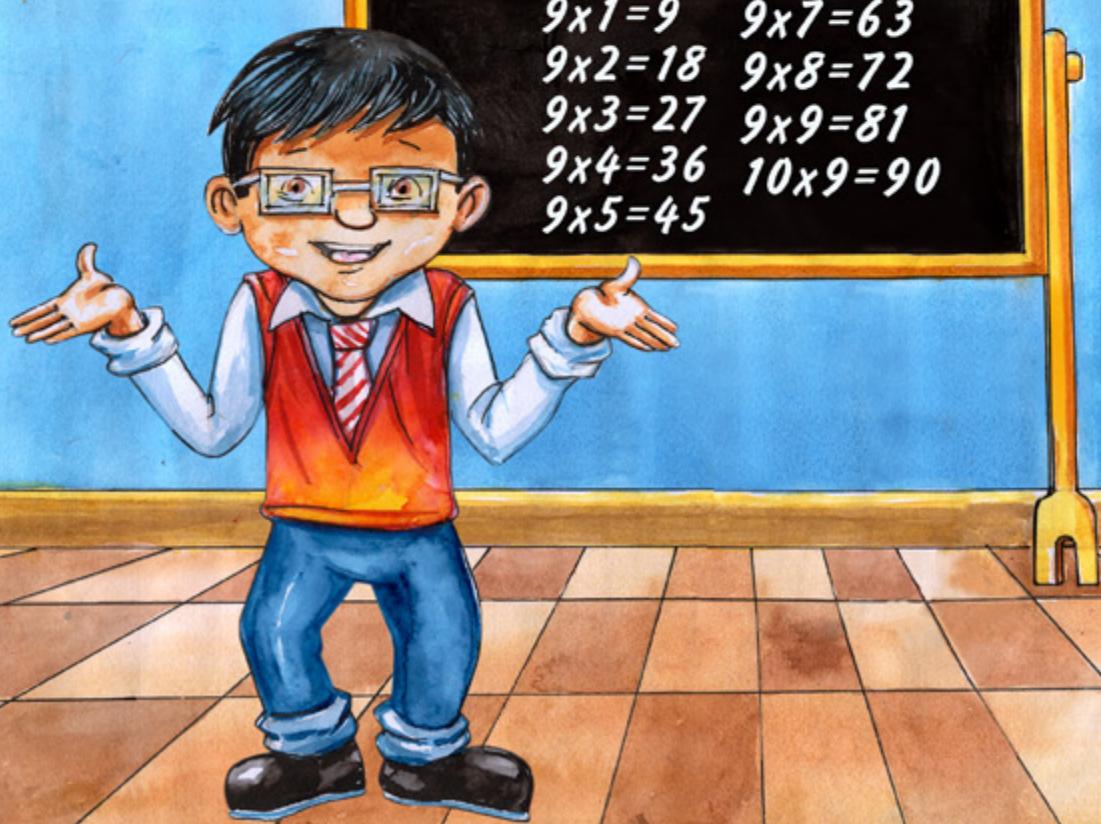


Times 11 everybody. Yes, that is what I said.

TIMES 11, it's SCARY!

Or is it?

$$\begin{array}{ll} 9 \times 0 = 0 & 9 \times 6 = 54 \\ 9 \times 1 = 9 & 9 \times 7 = 63 \\ 9 \times 2 = 18 & 9 \times 8 = 72 \\ 9 \times 3 = 27 & 9 \times 9 = 81 \\ 9 \times 4 = 36 & 10 \times 9 = 90 \\ 9 \times 5 = 45 & \end{array}$$



First, look at 1-digit numbers multiplied by 11.

It is much like multiplying by 1 except there are two places in the answer. (One times anything is anything - or in this case anything-anything).

$11 \times 0 = 0$  (Remember, 0 times anything is always 0).

$$11 \times 1 = 11$$

$$11 \times 2 = 22$$

$$11 \times 3 = 33$$

$$11 \times 4 = 44$$

$$11 \times 5 = 55$$

$$11 \times 6 = 66$$

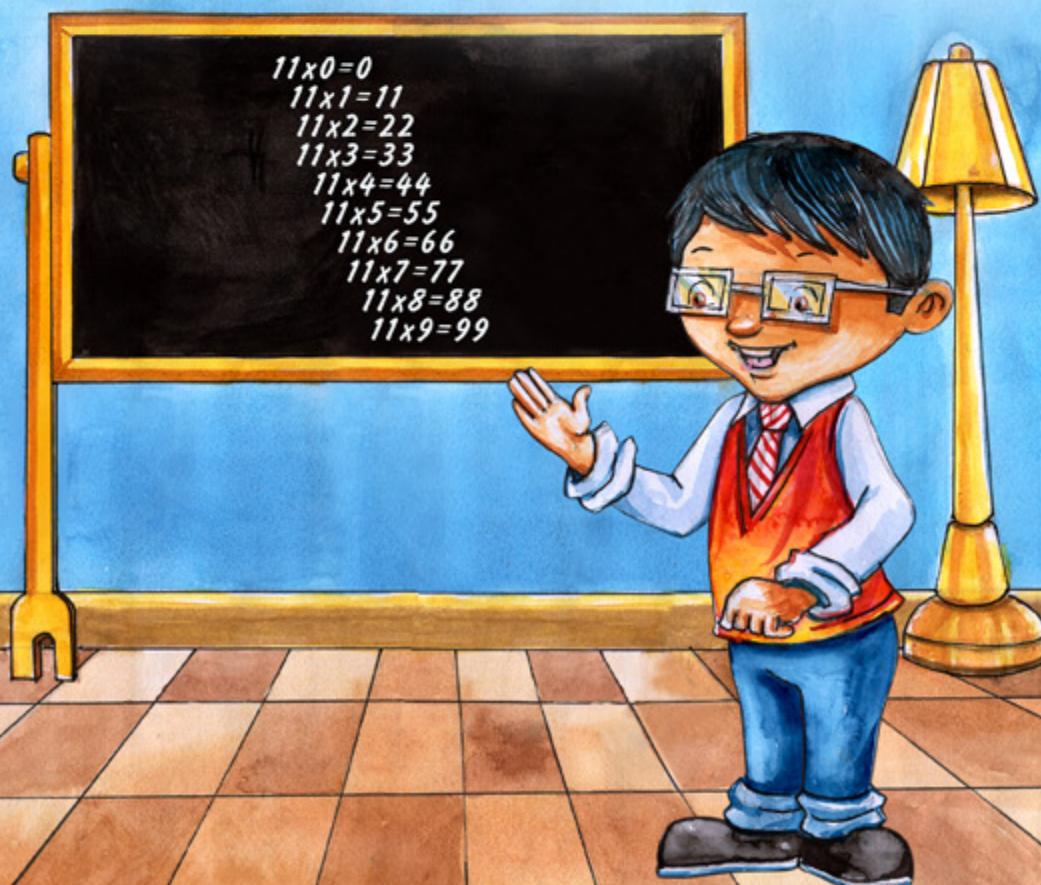
$$11 \times 7 = 77$$

$$11 \times 8 = 88$$

$$11 \times 9 = 99$$

Wow! That was easy.

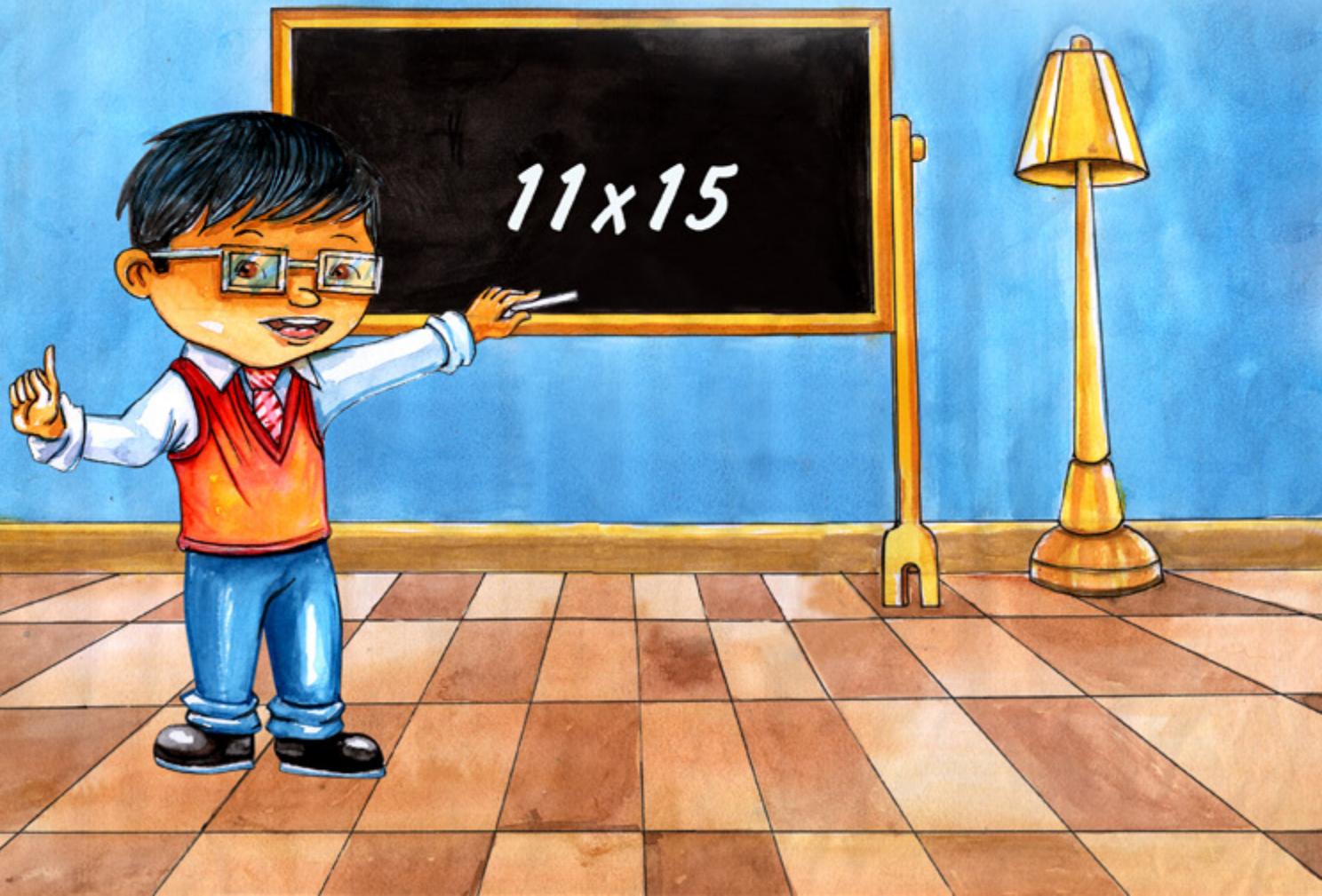
But can you easily multiply 2-digit numbers by 11?



Yes - And here is the trick!

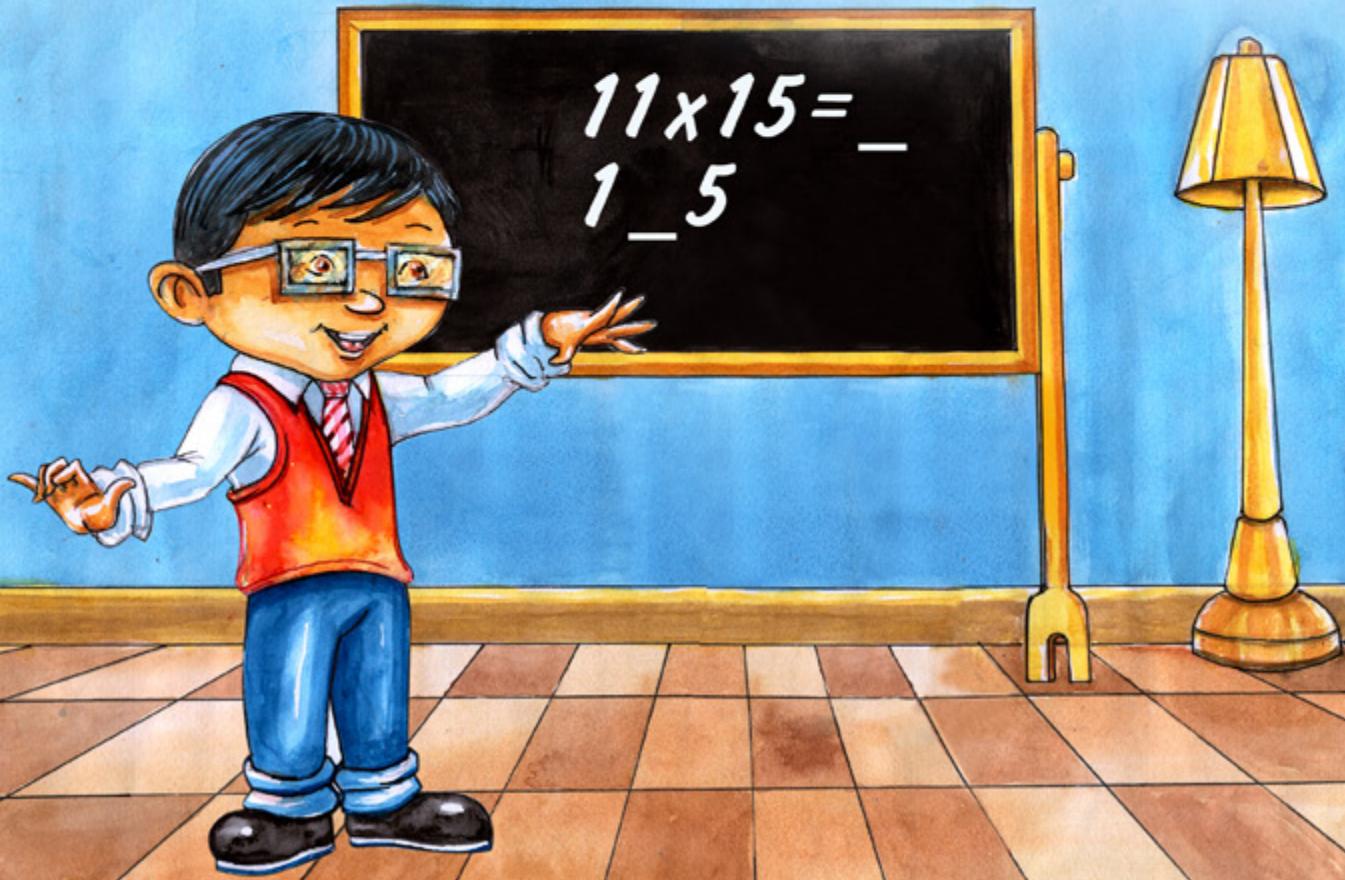
These are big numbers but don't get scared.

Let's look at  $11 \times 15$ .



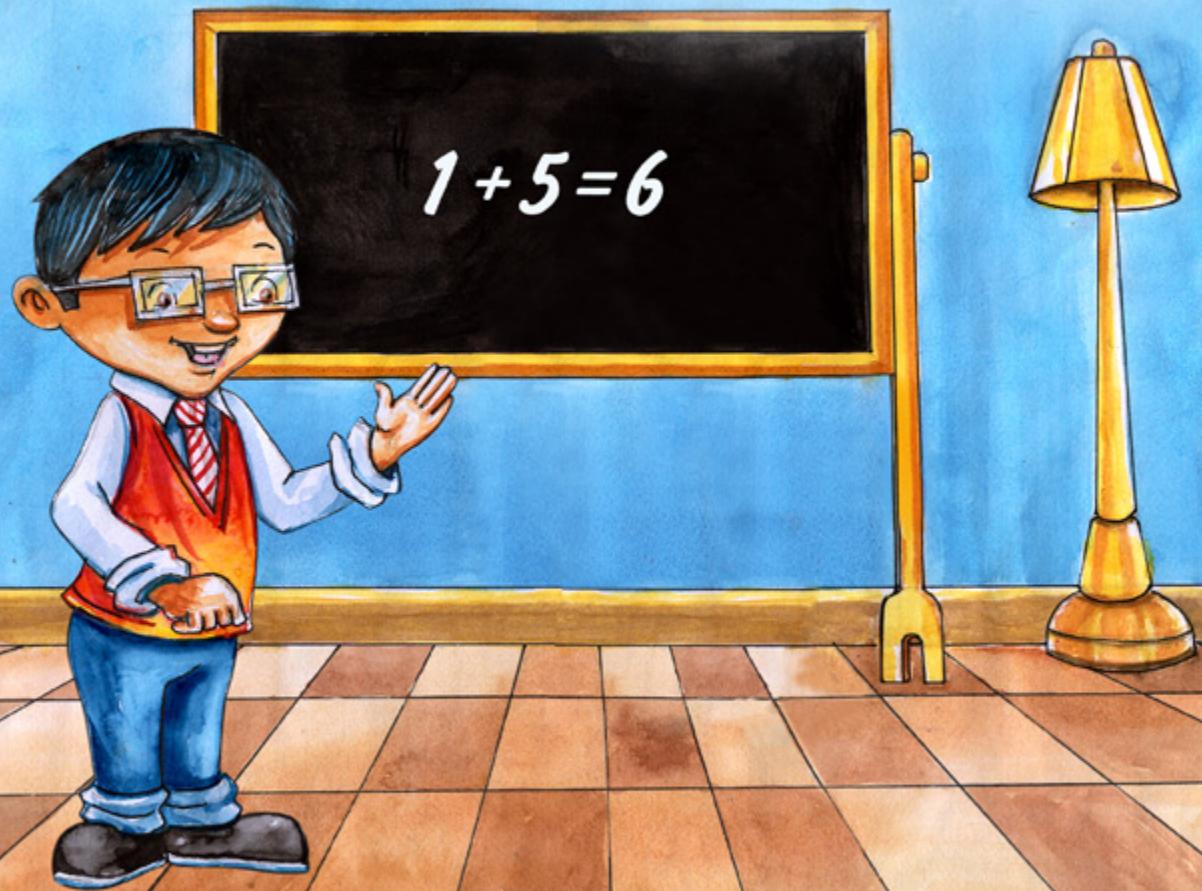
Take the number you want to multiply by 11  
(in this case 15) and imagine a space between  
the 2-digits.

1 \_ 5



Now add the two numbers together.

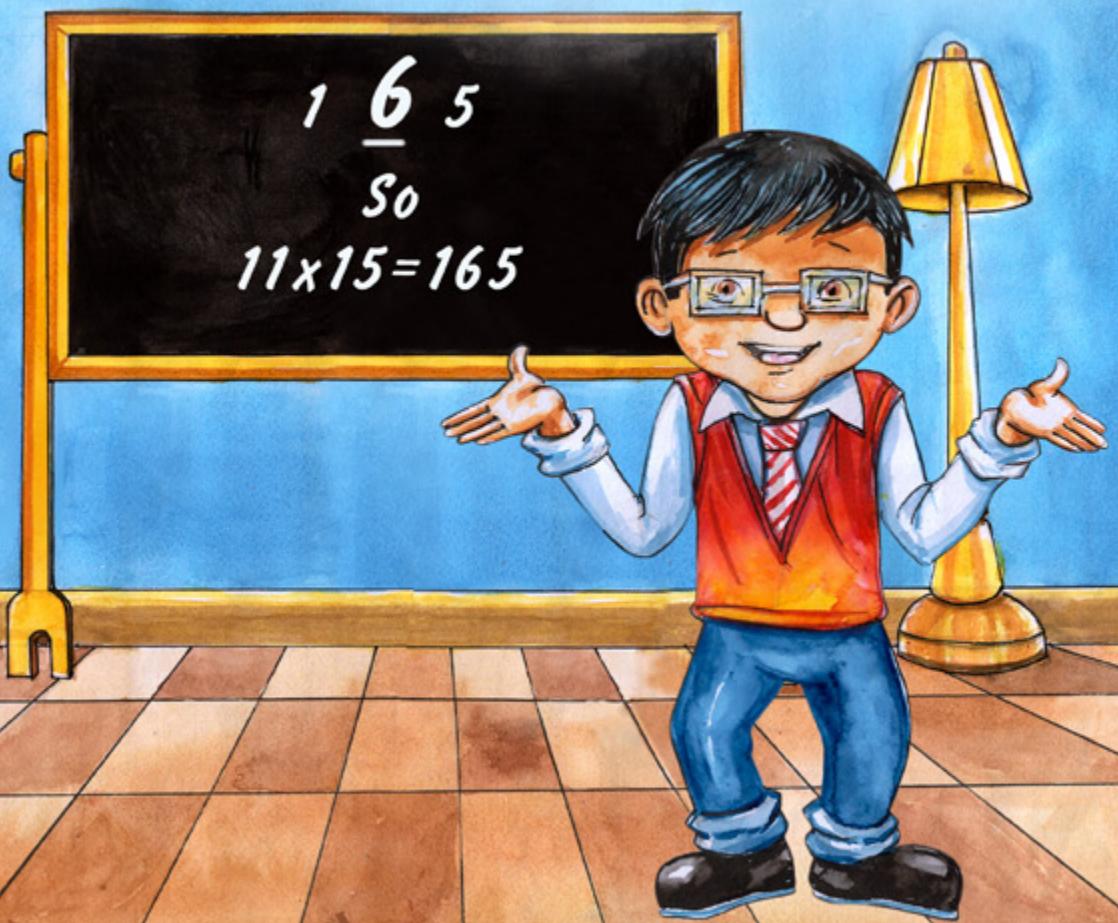
$$1 + 5 = 6$$



If the answer is a single-digit (1, 2, 3, etc.)  
put the sum in the space to get your answer.

165

So ...  $11 \times 15 = 165$



Go ahead and try a few.

$$11 \times 12 =$$

The answer equals 1 (1+2) 2 or 132.

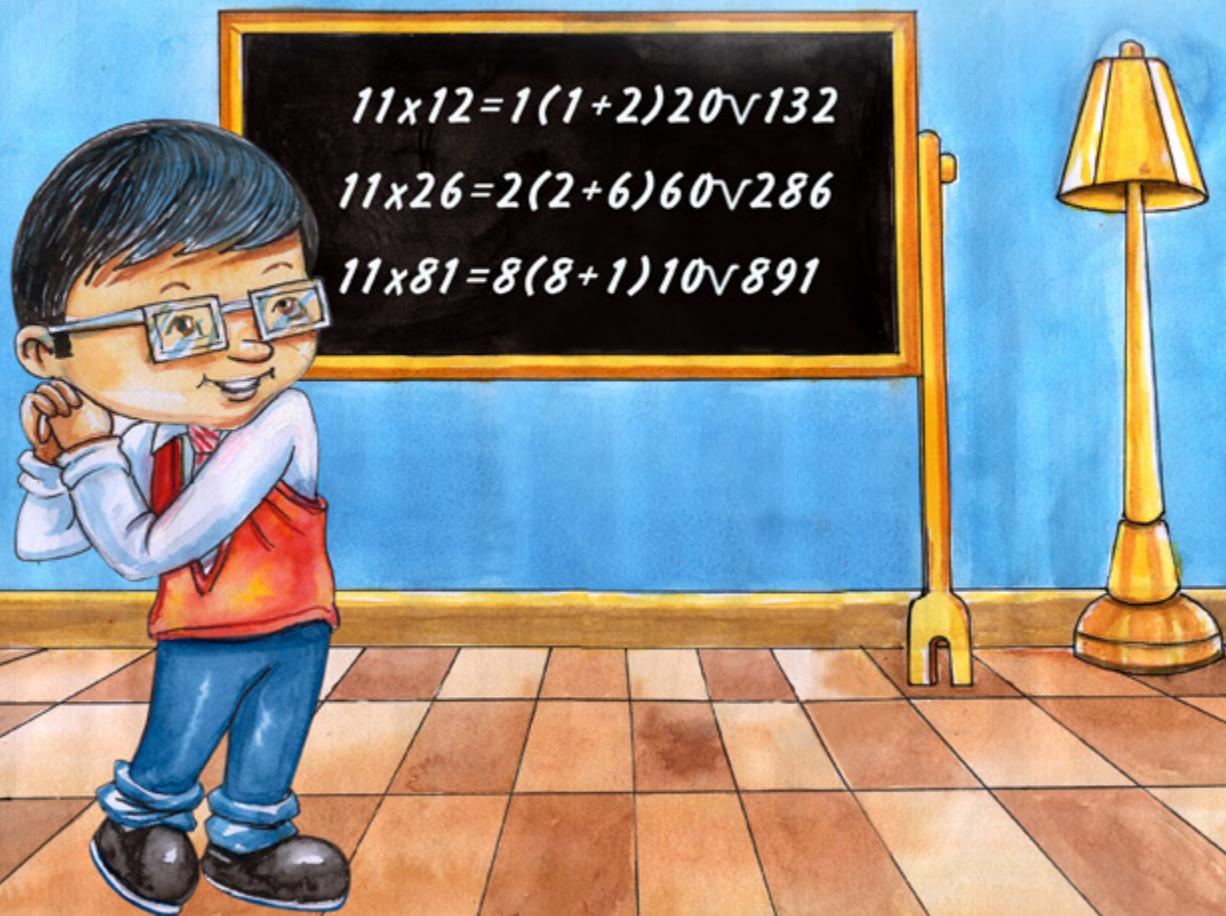
$$11 \times 26 =$$

The answer equals 2 (2+6) 6 or 286.

$$11 \times 81 =$$

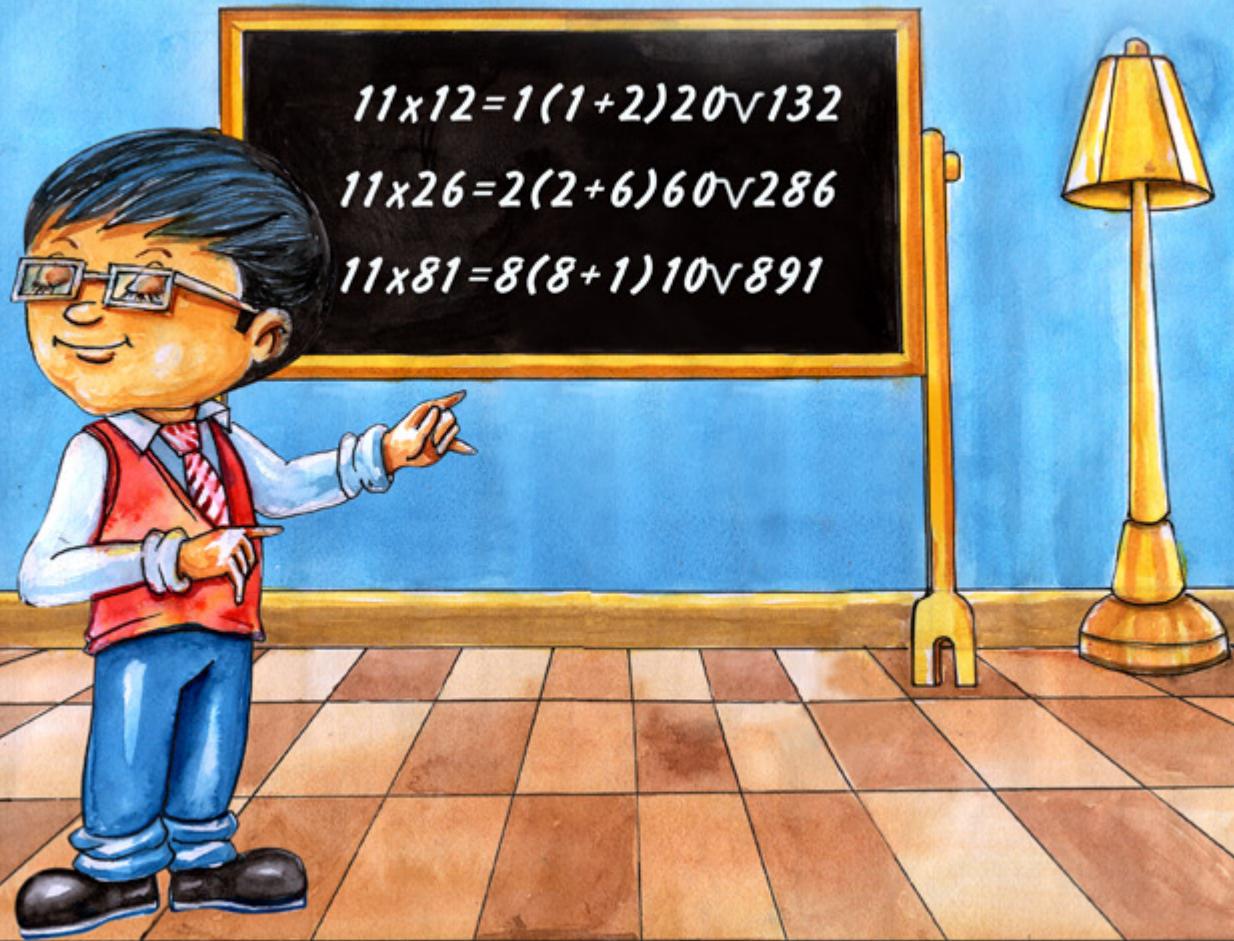
The answer equals 8 (8+1) 1 or 891.

You didn't know you were so smart, did you.



Oh-oh ... What do you do if the numbers in the space add up to a two-digit number like 10 or 17?

Well it's a little tricky ... But not hard.



Let's take a look at  $11 \times 77$ .

Imagine that space between the 7 and 7.

$$7 \underline{\quad} 7$$

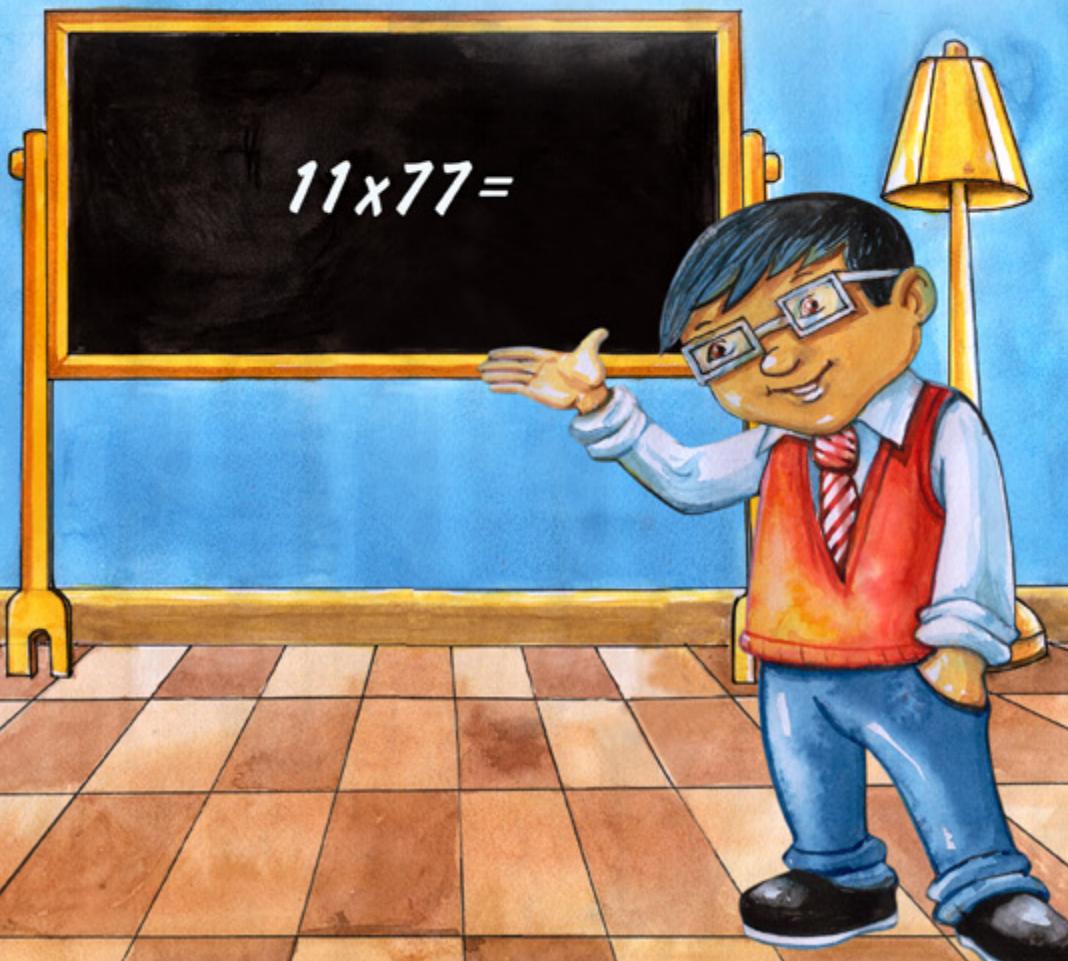
Add the two numbers together ( $7+7=14$ )

Put the second number into the space (in this case it is 4)

$$747$$

Then add the number 1 to the first number.

$$(7+1)47 \dots \text{or}$$



Let's do a little more practice.



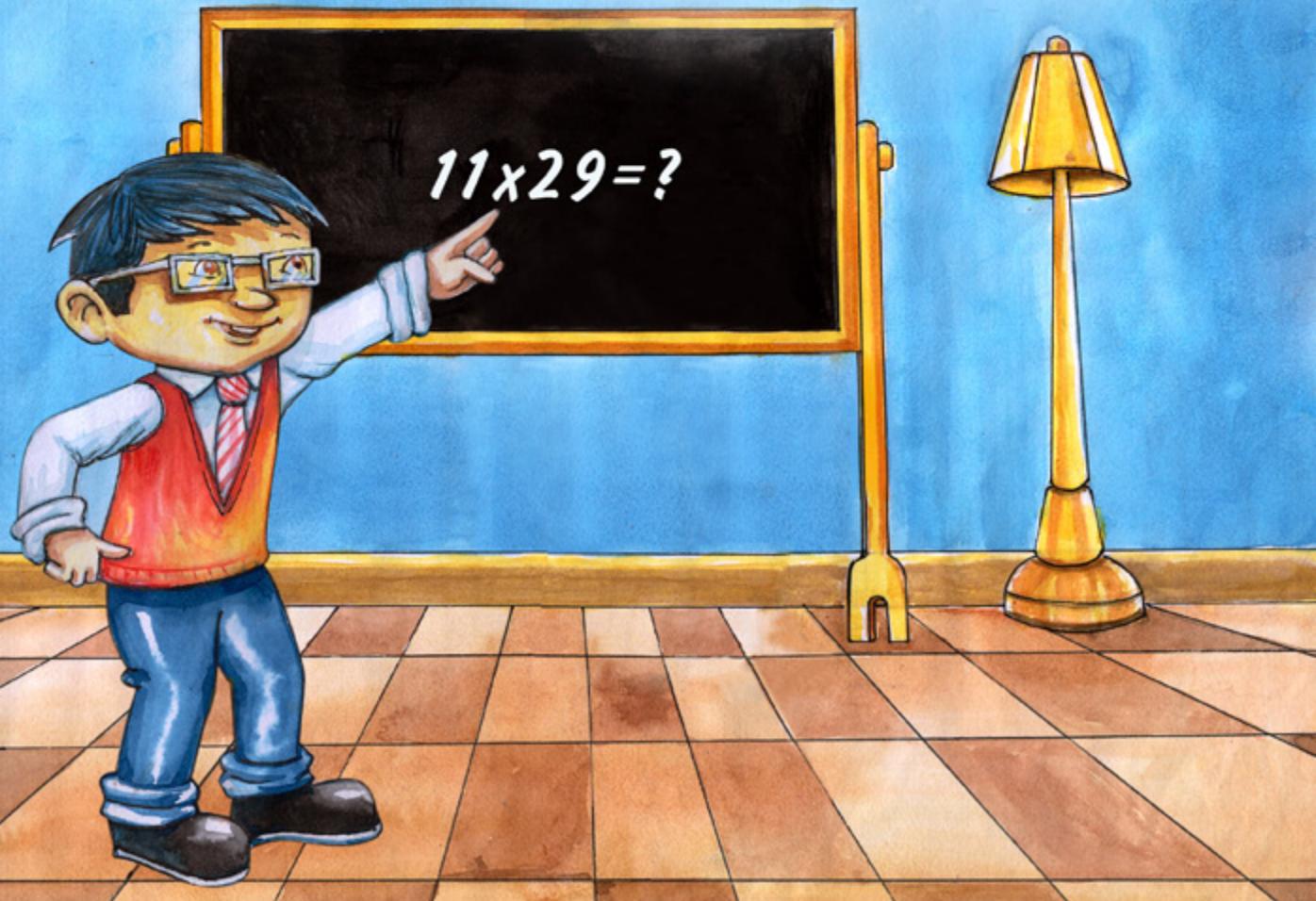
The challenge:  $11 \times 29 = ?$

$$\begin{array}{r} 2 \_ 9 \\ 2 (2+9) 9 \\ 2 (11) 9 \end{array}$$

Keep the second space number in the space  
and add 1 to the first number.

$$\begin{array}{r} (2+1)19 \\ 319 \end{array}$$

So ...  $11 \times 29 = 319$



Let's do another great big one just for fun.

$$11 \times 98 = ?$$

$$\begin{array}{r} 9 \_ 8 \\ 9 (9+8) 8 \\ 9(17)8 \end{array}$$

Keep the second space number in the space  
and add 1 to the first number.

$$\begin{array}{r} (9+1)78 \\ 1078 \end{array}$$

$$\text{So ... } 11 \times 98 = 1078$$



Wow! You catch on fast.

With a little practice, you will be able to multiply 2-digit numbers by 11 in your head.

Practice and challenge your friends (or maybe your teacher) to a 2-digit times 11 contest.



# Your Story Book!

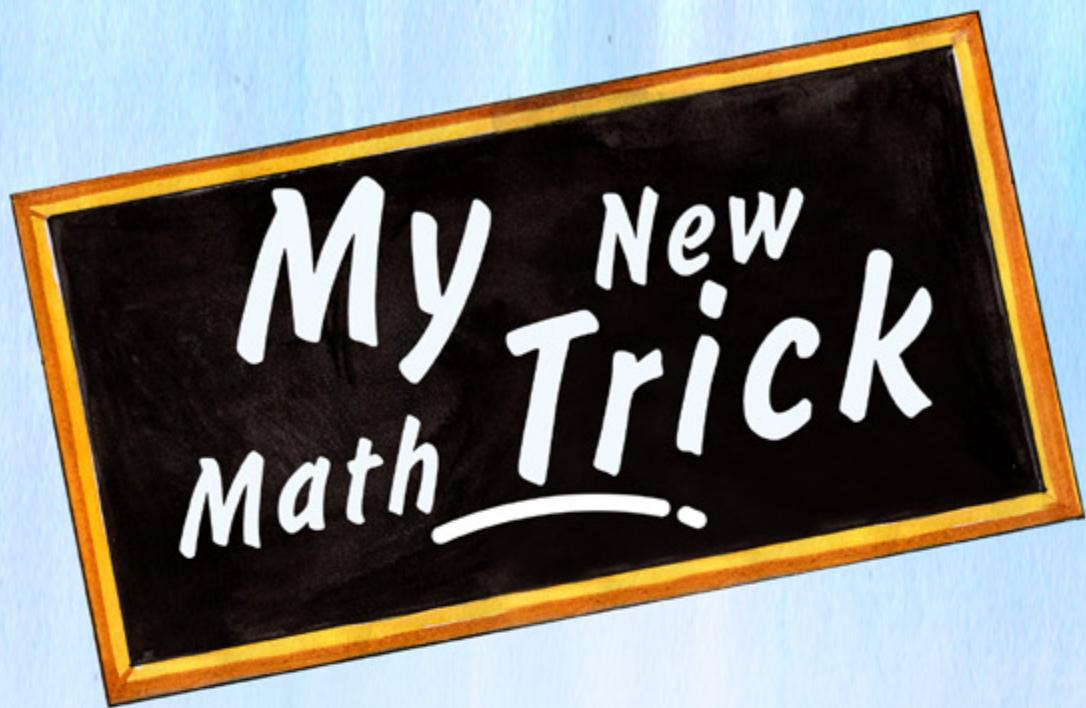
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T. Albert, a story teller and author, cannot forget the excitement he saw in his children and grandchildren as they looked at, scribbled in, and later read their favorite book; allowing their "minds eye" to take them on a magical journey. Nor can he forget the pleasure in having a special time and reading to, and with them, sharing a wondrous time of fascination, learning, and a building of memories.

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