PARK HILL PRIMARY SCHOOL

Multiplication Tables Workshop

11th October 2022

Let’s Warm Up!

You’re going to listen to some music by the band ‘The Wanted’ but the **lyrics** have been changed - **replaced with numbers** and you need to perform **calculations.**

Let’s Warm Up!

10
11
7
8
4
2
2
9
5

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Overview

A little bit about ‘us’!

Mr Griffin. Headteacher

Mrs Clement. Assistant Head Teacher and Year 4 Class Teacher

Miss Moxam. Year 3 Class Teacher and Maths Subject Lead

Back to the Future

What were your **memories** about ‘maths’ from when you were at school?

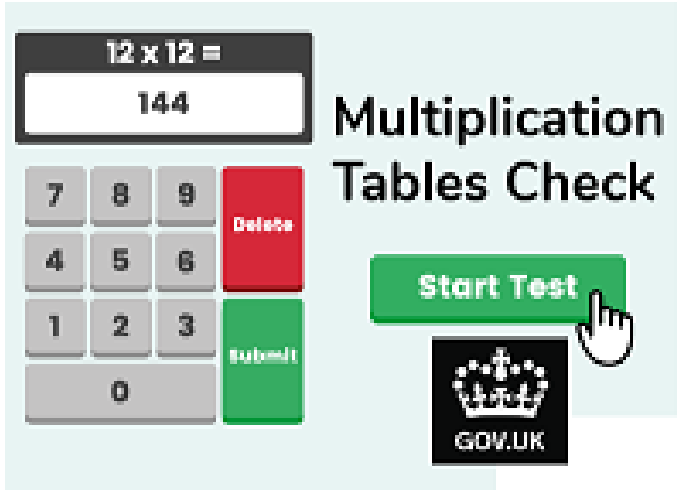
Things appear different!

‘I wasn’t taught **like that** when I was at school!’

Aims of the workshop

To highlight the **age-related expectations** for ‘Times Tables’

Aims of the workshop



To provide you with information relating to the statutory **‘Multiplication Tables Check’**

Aims of the workshop

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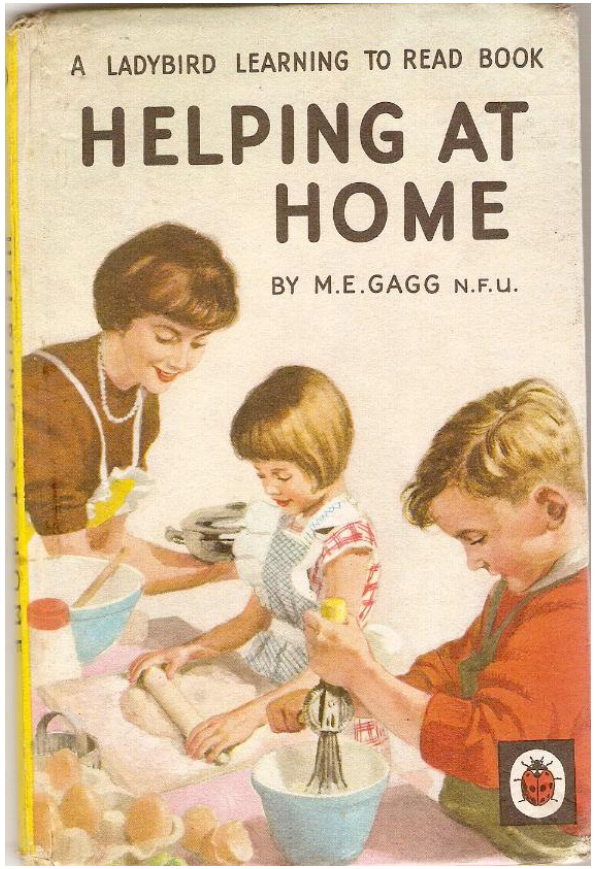
To share some of what **we do at Park Hill** to support the children to learn‘Times Tables’

Aims of the workshop



To share ideas around how you can **help your child at home** with ‘Times Tables’

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Times Table Journey

National Curriculum

At the end of Key Stage One (Year 2), the children are expected to know the **2x, 5x and 10x times tables**!

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Our Way!

Year	Count	Multiplication Facts
Reception	1s, 2s, 10s	-
Year 1	1s, 2s, 5s, 10s	2x, 10x
Year 2	1s, 2s, 3s, 4s, 5s, 10s	3x, 4x, 5x
Year 3	1s - 6s, 8s, 10s	6x, 8x
Year 4	1s - 12s	7x, 9x, 11, 12x
Year 5	1s - 12s	Squares and Roots
Year 6	1s - 12s	Squares, Cubes and Roots

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What we do in School

We sing songs to the tune of nursery rhymes to help children with recall

The animals went in
2
4
6
and 8
and 10
The animals went in
12
14
16
18
The animals went in
20
22
like a kangaroo

and they all came marching in and all made
24

3
6
9

12
15
18
21

24
27

30
33
36

The Grand Old Duke of York he had
4
8
12
16
and he marched them to
20
24
28

32
36

40
44
48 and 52
so he knew his 4 times table

5
10
and 15

20
25

30
and 35
40
45
and 50

55
60
Mary had a little lamb his fleece was white as snow.

6
12
18
24
30 and
36 and
42
48 and 54
60 and
66 and
72

Twinkle twinkle little star now I know what my sixes are

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What we do in School

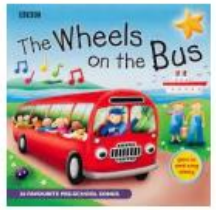
We sing songs to the tune of nursery rhymes to help children with recall

7
14
21
28
35
42 and
49 and 56
63
70
77
84
the teddy bears have a picnic

8
16
24
32
40 and
48 and
56 too
64
72
80

88 and 96
the 8s are gonna stick

9
18
27
36
45
54
63
72
81 and
90
99
108



The wheels on the bus go round and round

11
22
and 33
44
and 55
66!

77
88
99
and 110
1-2-1
and 1-3-2

12
24 and
36
48
60
72
84 and
96
108
120
132
144
156

Do your 12 times tables now, up to 13 x 12

Please practise these with your child as often as possible to help them to count in those effectively.

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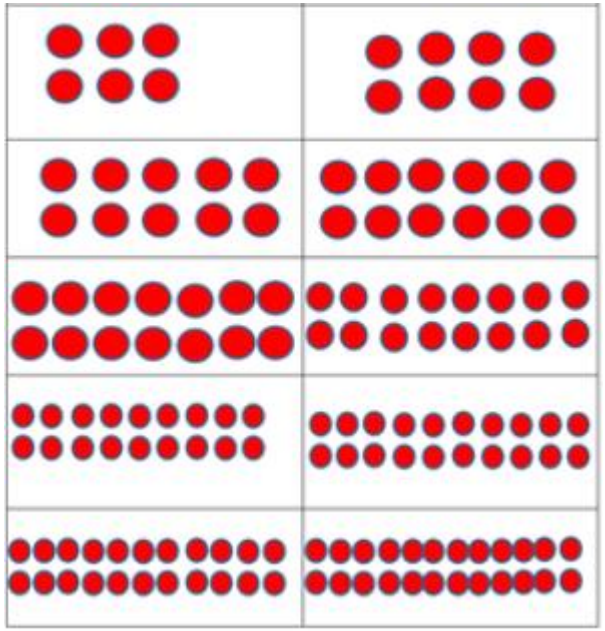
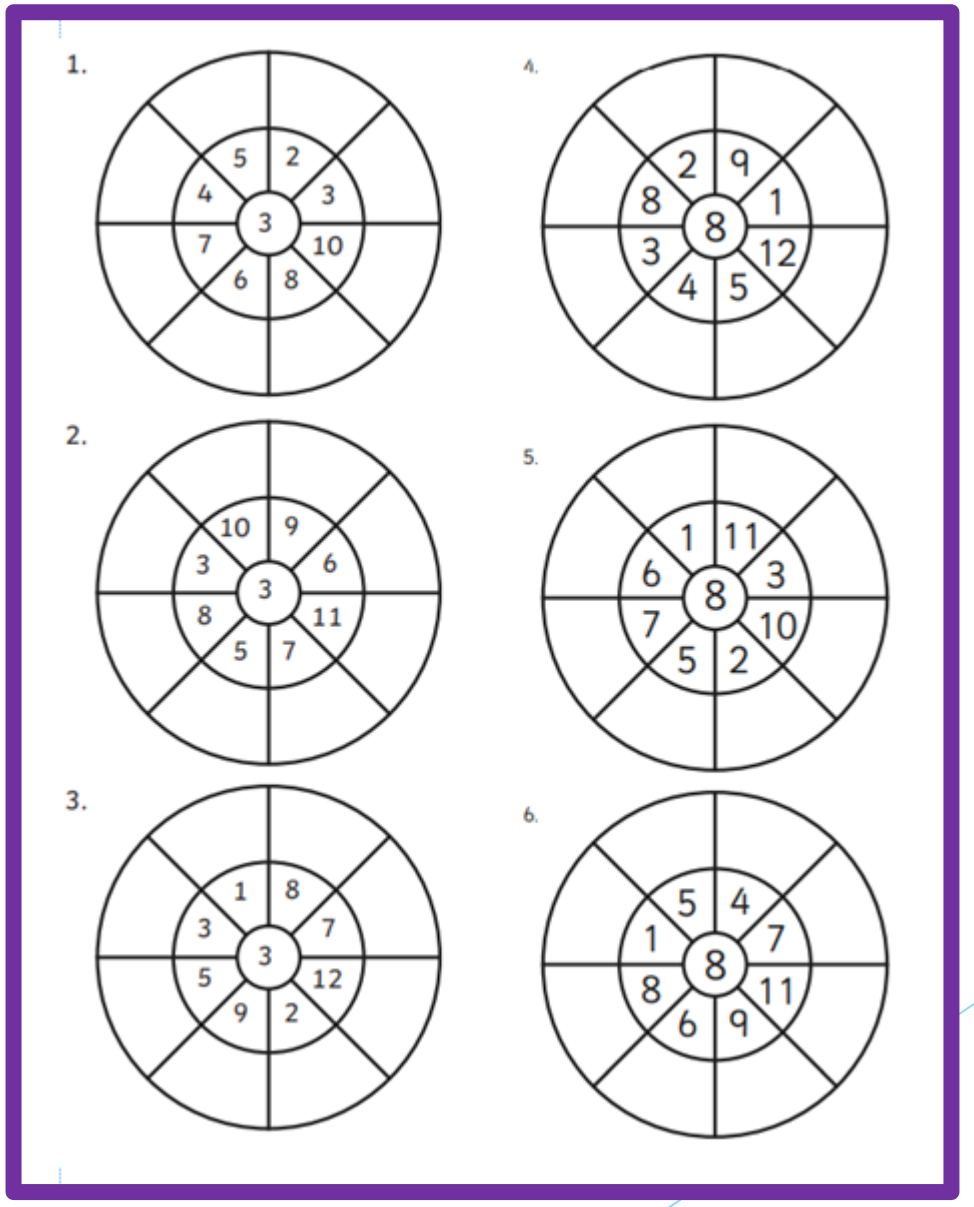
What we do in School

- Times table wheels
- Looking at patterns with the numbers
- Mosaics to see patterns
- Arrays





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How to help your Child

We use rhymes/songs, but we also make sure they understand the concepts behind multiplication and skip counting.

- Playing games with your child e.g. hopscotch with multiples of that number
- Sing the songs together
- Use everyday household objects to multiply
- Give them purpose e.g. I have four sausages for each person for breakfast, there are 5 people eating. How many eggs do I need?

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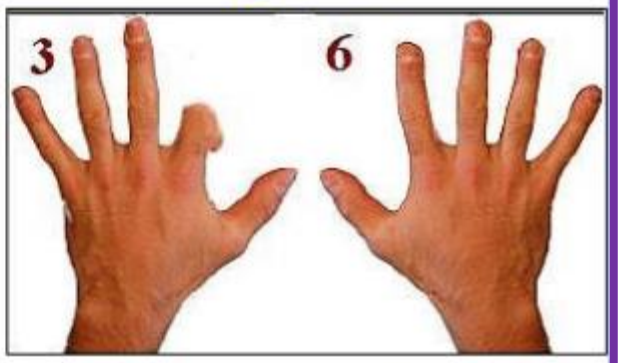
Games and Strategies

9 x table on your fingers!

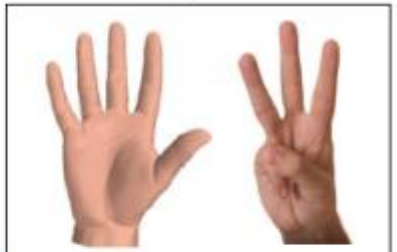


1. Hold your hands in front of you with your fingers spread out.
2. For 9 x 4 bend your 4th finger down (like the picture).
3. You have 3 fingers in front of the bent finger and 6 after the bent finger. Thus the answer must be 36!
4. The technique works for the 9 times table up to 10.

Superfingers!

This is a game for two players!

The game is basically a version of rock, paper , scissors but with numbers. Two players count to 3 and then make a number using their fingers.



Both players then have to multiply both numbers together and the quickest wins.

Multiplication Snap!

You will need a deck of cards for this game!

1. Flip over the cards as though you are playing snap.
2. The first to say the fact based on the cards turned over (a 2 and a 3 = say 6) gets the cards.
3. The person to get all of the cards wins.

Looking for patterns...

Being able to spot the patterns in numbers is an important skill and can also help with learning times tables. Children can investigate these multiplication rules:

- **Odd number x odd number = odd number** (E.g. 3x5=15)
- **Even number x even number = even number** (E.g. 4x6=24)
- **Odd number x even number = even number** (E.g. 3x6=18)

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Vocabulary

multiply
times
groups of
lots of
repeated addition
product
multiplied by
array

altogether
repeat
multiplicand
multiplier
factor
square (multiplied by itself)
cube
double
treble
quadruple

Multiplication Tables Check (MTC)

In the summer term of Year 4, children will all sit the Multiplication tables check using a laptop in school.

- The purpose of the check is to determine whether your child can **fluently** recall their times tables up to 12, which is essential for future success in mathematics.

- It is deigned to help schools **identify which children require more support** to learn their times tables.

How is the check administered?

- The check will be **fully digital.** Answers will be **entered using a keyboard**, by pressing digits using a mouse or using an on-screen number pad.

- Usually, the check will take **less than 5 minutes** for each child.

- There will be **3 practice questions** before the check begins followed by **25 questions.**

- The children will have **6 seconds** from the time the question appears to input their answer. In between each question, there will be a **3 second pause**.

How you can support your child

Before children can answer questions at speed, they need to be **secure in their times table facts**. We have **learnt songs** for each times table to help children recall the answers then use methods such as counting on their fingers to help them develop fluency.

In addition, there are little tricks for certain times tables such as;

- the 9s where you can put down one finger
- Knowing 9 x something you can do 10 x then take away one group
- 7 x 8 is 56 (5, 6, 7, 8)
- 11 x 11 is 121 because there are 2 11s (put the 2 in the middle)

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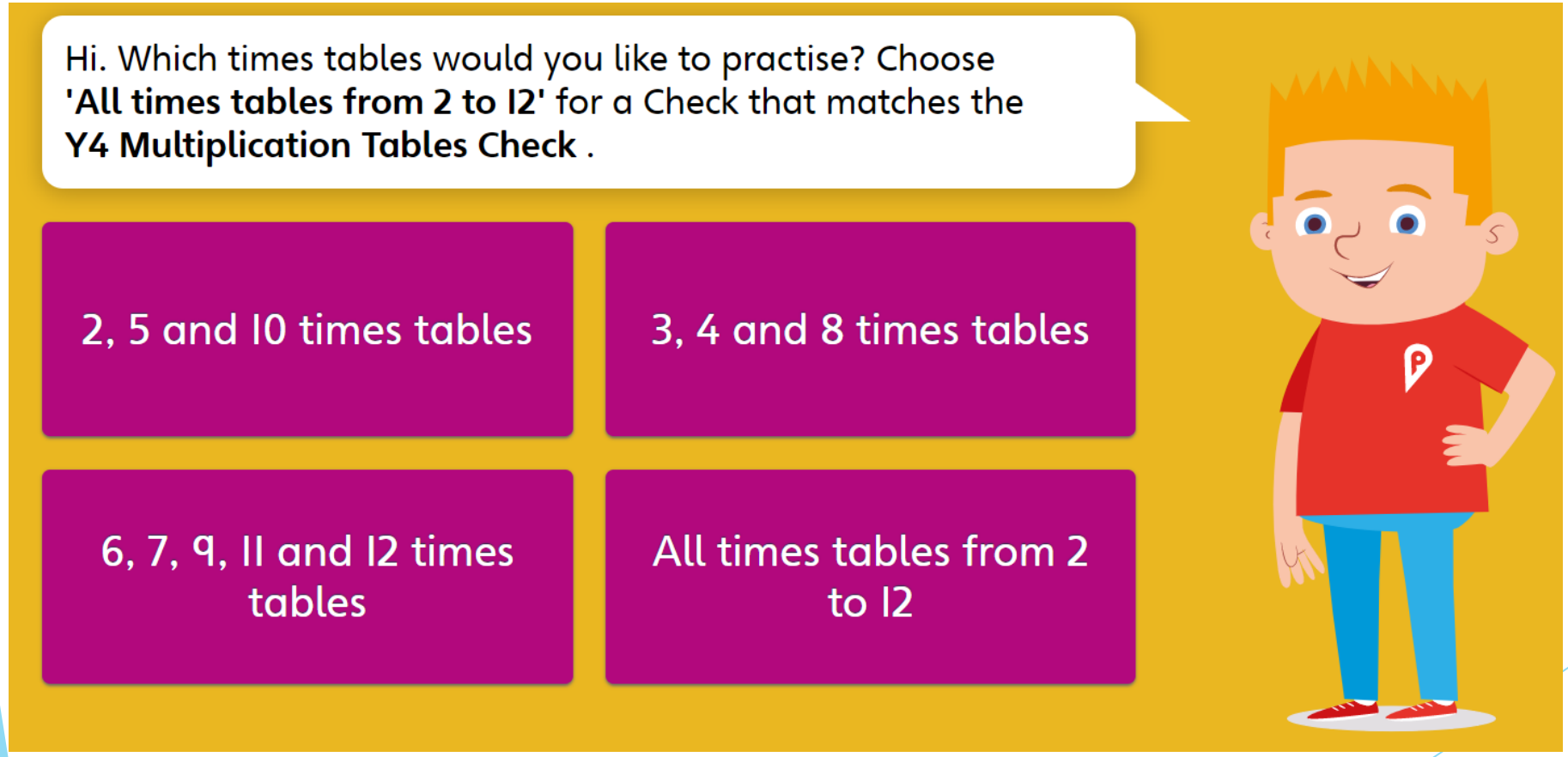
Multiplication Tables Check (MTC)

Outlined in the homework expectations letter earlier in the term, we expect children to be practising using this to increase speed and fluency. Typing skills can be a big barrier for children so practising regularly really helps.



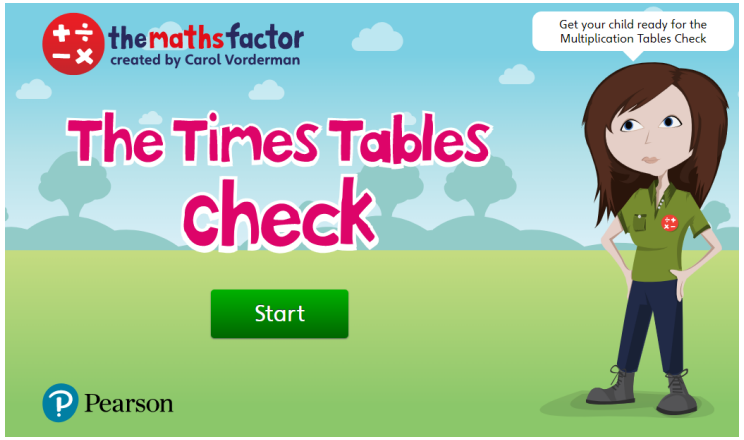
How you can prepare your child

Times Table Rockstars – Soundcheck

https://ttrockstars.com/

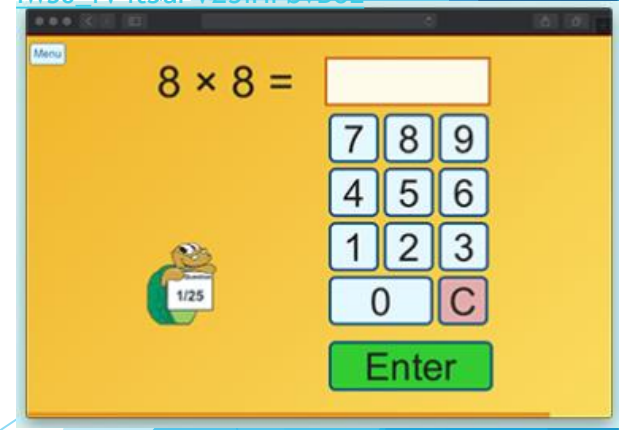
The Maths Factor

https://www.themathsfactor.com/times-tables-check/#/



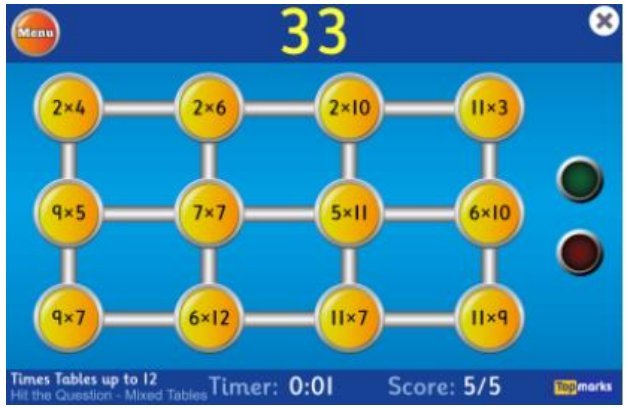
U R Brainy

https://urbrainy.com/mtc?fbclid=IwAR0ByZWJLgLhs_W89cgA3iHGJQk1soARjBM-IwS0_fV4t3uPVZ3iHFbyBoE



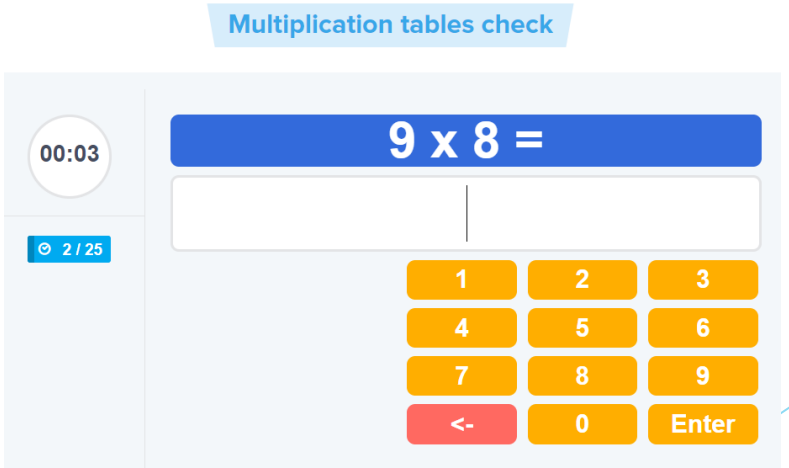
Hit the Button

www.topmarks.co.uk



Times Tables

www.timestables.co.uk/multiplication-tables-check/



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