



Year 4 Multiplication Tables Check

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What is the MTC?

- ▶ *By the end of Year 4, the national curriculum states that children should know their times tables up to 12 and recall calculations with fluency*
- ▶ *The MTC is for all Year 4 pupils unless there is a specific additional need where the child can not take the check*
- ▶ *The check enables us, as a school, to identify children that need additional support with their times tables*

What happens during the check?



- ▶ The children will be completing the check during the week commencing 1st June
- ▶ It will be completed on a PC.
- ▶ There are 25 questions
- ▶ Pupils will have 6 seconds to answer each question
- ▶ They will complete the test in focused groups
- ▶ You will find out your child's score when the reports are given



Multiplication tables check questions

There will be 25 questions.

[Start now >](#)

$$10 \times 10 =$$

1	2	3
4	5	6
7	8	9
	0	Enter

*The test
should be
no longer
than 5
minutes*

How you can help your child?



We will of course continue to teach the full curriculum, and would love your continued support to help practice times tables with your children at home.

Some easy ways to do this include:

- ▶ *Asking questions such as “What’s 7×8 ?”*
- ▶ *Reciting times table*
- ▶ *Singing times table songs*
- ▶ *Looking at the relationships and patterns- 3-6 , 4-8 , 9, 10, (3,9,3,6)*
- ▶ *Using purple mash and times table rock stars*
- ▶ *Encourage your child to talk to you, their teacher, or another adult they trust, if they express persisting anxieties about the check. Remember that a small amount of anxiety is normal and not harmful.*

How we teach times tables to promote instant recall:

- ▶ Counting and looking for patterns
- ▶ Repeated addition
- ▶ Multiplication is commutative and using the distributive law- partitioning - $12 \times 6 = 10 \times 6 + 2 \times 6$
- ▶ Multiplication is the inverse of division
- ▶ Number families

Different representatives and resources are used to encourage the children to visualise and remember (arrays and counters.)

Counting and looking for patterns

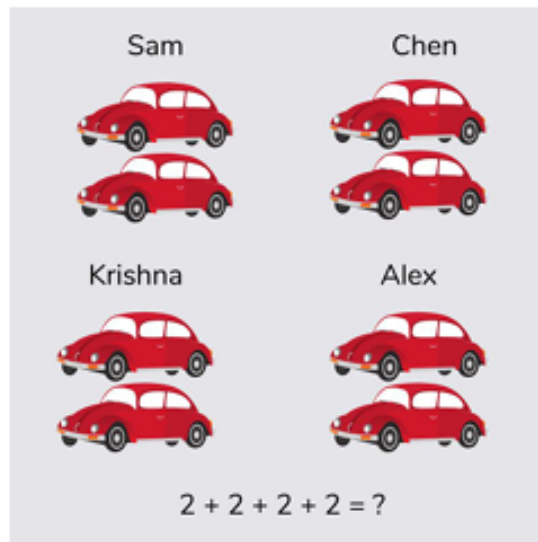
- ▶ Ensure children have a strong understanding of counting in groups
- ▶ When this is secure, we can look for patterns

e.g.: this is counting in groups of 2



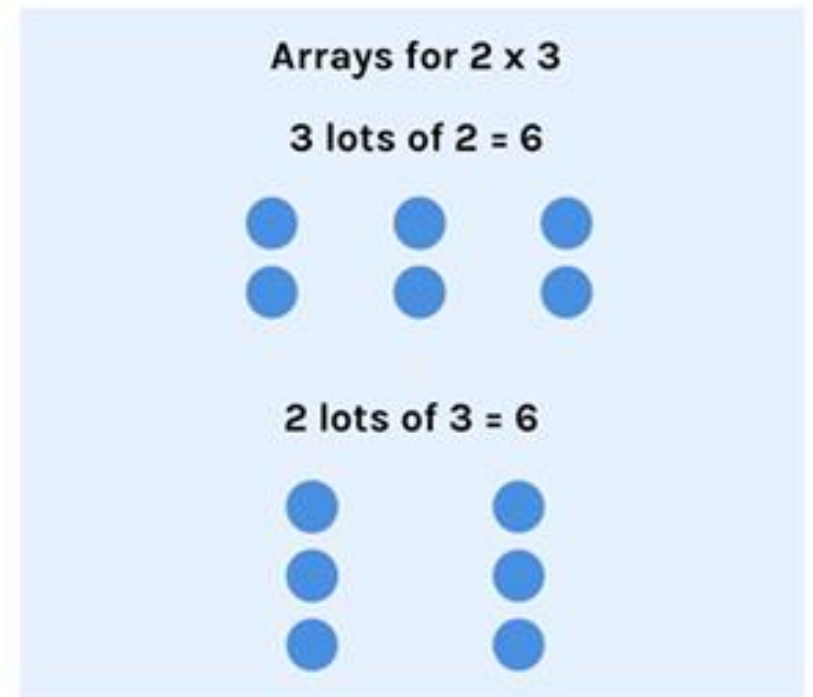
Repeated addition

- ▶ Knowing that 2×4 is the same as $2+2+2+2 = 8$



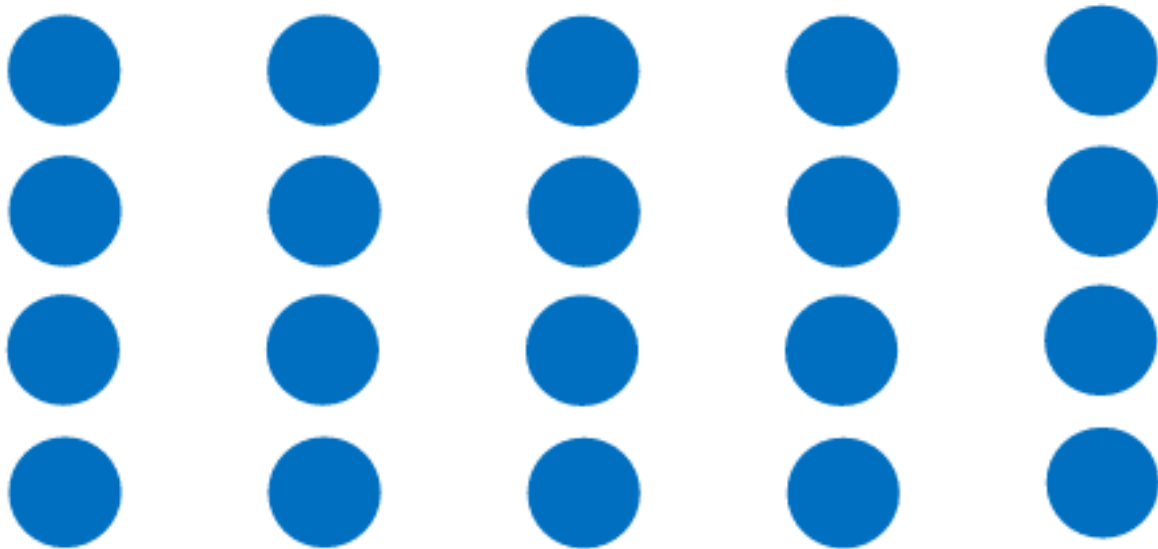
Multiplication is commutative:

- ▶ Children need to understand that multiplication can be completed in any order to produce the same answer.
- ▶ Sometimes the link needs to be explicit



Multiplication is the inverse of division:

Using pictorial representations (pictures to represent the number sentences) is useful for children to see the link between multiplication and division.



Using known facts:

- ▶ *By using known facts from 'easier' times tables, children should be able to find answers with increasing speed.*

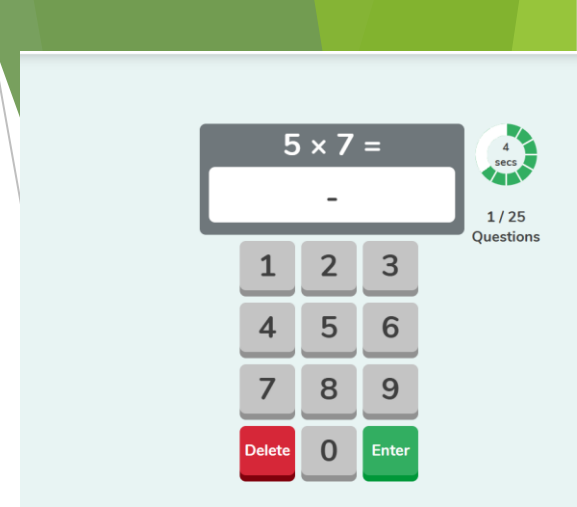
$$7 \times 12 = ?$$

I know $7 \times 11 = 77$
Therefore, $77 + 7 = 84$

Times table rock stars and purple mash

Times table rock stars has features that has number of games and activities that will help your child learn and understand times table

Purple mash has a check that has 25 questions and allows children to continuously practice how the MTC works.



The screenshot shows the 'Times Tables Rockstars' website. At the top, there are two main sections: 'SINGLE PLAYER' and 'MULTIPLAYER'. Under 'SINGLE PLAYER', there are three options: 'GARAGE Teacher Set', 'STUDIO 12 x 12', and 'SOUNDCHECK 25 questions'. Under 'MULTIPLAYER', there are three options: 'FESTIVAL 12 x 12', 'ARENA Teacher Set', and 'ROCKSLAM 12 x 12'. Below this, there is a 'SOUNDCHECK' game interface showing a numeric keypad with the equation $11 \times 6 =$ and a 'PLAY' button. To the right, there is a 'SCORE HISTORY' graph showing a line graph of scores over time, and a table of question results.

Question No.	Question	Answer
#1:	7 x 7	49
#2:	9 x 8	72
#3:	12 x 4	48
#4:	3 x 11	33
#5:	6 x 8	48
#6:	10 x 12	120
#7:	2 x 9	18
#8:	9 x 7	63
#9:	6 x 10	60
#10:	4 x 5	20
#11:	8 x 12	96
#12:	12 x 7	84
#13:	11 x 9	99
#14:	11 x 6	66
#15:	12 x 8	96
#16:	9 x 9	81
#17:	7 x 11	77
#18:	10 x 2	20

<https://trockstars.com/>



Any questions?

