



Year 4 Multiplication Tables Check (MTC)

Aims

- To understand what the Multiplication Tables Check (MTC) is and what the expectations are.
- To understand how, when and why the MTC will be administered.
- To understand how times tables are taught and practiced in Year 4.
- To provide you with some ideas you can use at home.

National Curriculum Expectations

Year Group	Expectation
Year 1	Count in multiples of 2, 5 and 10 . Recall and use all doubles to 10 and corresponding halves.
Year 2	Recall and use multiplication and division facts for the 2, 5 and 10 times tables including recognising odd and even numbers .
Year 3	Recall and use multiplication and division facts for the 3, 4 and 8 times tables.
Year 4	Recall and use multiplication and division facts for tables up to 12 x 12
Year 5	Revision of all times tables and division facts up to 12 x 12
Year 6	Revision of all times tables and division facts up to 12 x 12

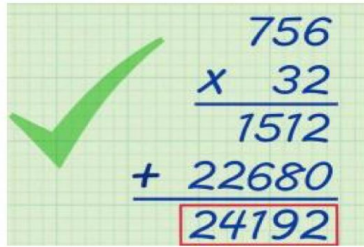
This means that ...

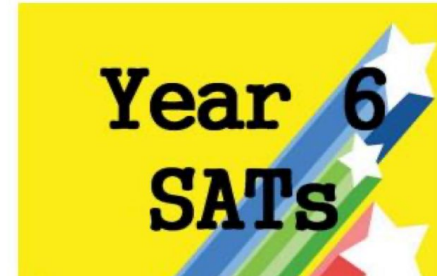
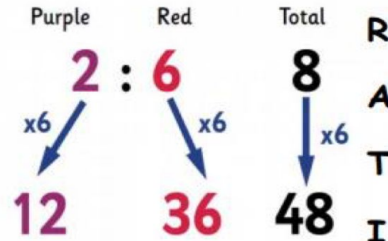
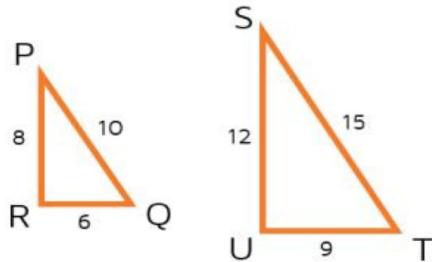
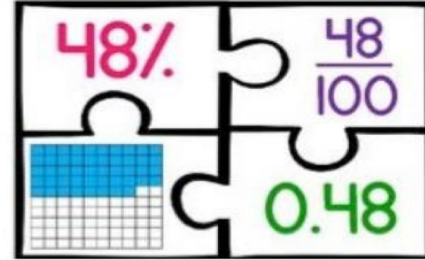
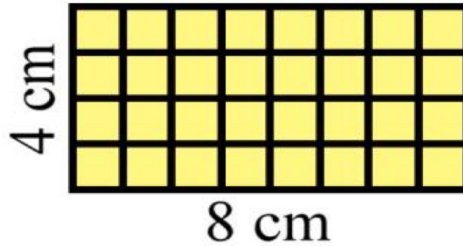
- Under the current National Curriculum, children are expected to know their times tables by the end of Year 4.
- They are designed to help schools identify which children require more support to learn their times tables.
- The MTC has been introduced to check children's progress in meeting this expectation.

Middle School...

Children who are not fluent in their times tables by the end of Year 4 will struggle to access the Year 5 and Year 6 curriculum, making learning new skills and concepts far more difficult.

Why is multiplication knowledge important?


$$\begin{array}{r} 756 \\ \times 32 \\ \hline 1512 \\ + 22680 \\ \hline 24192 \end{array}$$



27/36 arithmetic paper questions (that's $\frac{3}{4}$ of the paper!)

27/49 reasoning questions

...and in “real life”!



It's not just about speed...

Write the missing number to make this calculation correct.

$$754 \times 6 + 754 \times 3 = 754 \times \boxed{}$$

There are 25 classes in a school.

Each class has 34 pupils.

62% of all the pupils play a sport after school.

What number of pupils do not play a sport?

flexibility

reducing the cognitive load

application of knowledge

$$\begin{array}{r} \square 235 \\ \times \square 3 \\ \hline 9705 \\ 161750 \\ \hline 171455 \end{array}$$

What correlation is there between scores on the MTC and KS2 SATS tests?

- Pupils who scored 19 or above (out of 25) on the Year 4 MTC almost all achieved the expected standard in the KS2 SATS.
- Of those who scored 13 or below on the MTC, almost none achieved the expected standard in the SATS.
- Of those scoring between 14 and 18 marks on the MTC, about half of the pupils achieved the expected KS2 standard.
- The mean score of those with full marks in the MTC was 110.
- This might suggest that it is possible to predict at the end of Year 4 (with a reasonable degree of certainty) which pupils are likely to achieve the expected standard at the end of Year 6.

What is the Multiplication Tables Check? (MTC)

- The MTC is a statutory KS2 check for all Year 4 pupils across England.
- The purpose is to determine whether pupils can recall their times tables fluently.
- This knowledge is essential for future success in Maths.
- The information from the check is used to help us identify and support pupils who have not yet mastered their times tables.
- There is no 'pass' rate or threshold which means that, unlike the Phonics Screening Check, children will not be expected to re-sit the check.

How is the Multiplication Check administered?

- It is an online, on-screen digital resource, where they will have to answer multiplication questions against the clock.
- The check will last no longer than 5 minutes; children will have 6 seconds to answer each question.
- There is a series of 25 random questions. Children answer 3 practice questions before taking the actual check.

What content is covered in the MTC?

- Questions are randomly selected from the 144 number facts that make up the multiplication tables from 1 to 12.
- There is a particular focus on the 6, 7, 8, 9 and 12 times tables.
- Each question will only appear once in any 25-question series.
- There won't be any reversals of a question (so if they've already answered 3×4 , they won't be asked about 4×3).

The format of the MTC

- Each question will be worth one mark and be presented to the child in this format: $_ \times _ = \underline{\quad}$
- There is a 3 second pause between each question.
- It will be automatically scored, and scores will be available to schools once the assessment window closes.

Special Arrangements

- Some children will be eligible for specific arrangements:
- Colour contrast;
- Font size adjustment;
- 'Next' button (alternative to 3-second pause);
- Removing on-screen number pad;
- An adult to input answers;
- Audio version;
- Audible time alert.

But there's 144
facts to learn!

...or are there?

x	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

We can get rid of all the red facts because they are repeats!

This leaves 78 facts to learn!

X	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Everyone knows
their 1 x table!

Most of us are fine
with our 10s...

This leaves 57
facts to learn!

X	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

2s and 5s are pretty easy to learn as well...

So are the 11s up to 10×11 ...

X	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
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9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

So there's actually
ONLY 32 facts to
learn!

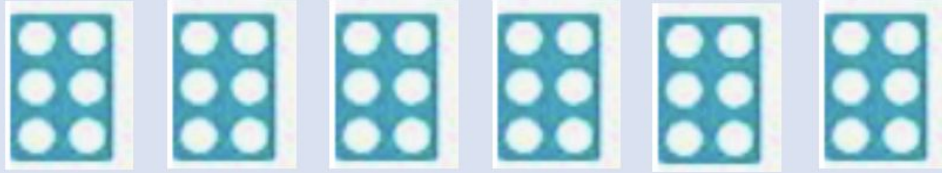
X	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
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Pass Mark

- There is no pass mark, as the MTC is not considered to be a test.
- There is no pass or fail; just a score out of 25 marks.
- As a school, we are predicting that most children in Year 4 will achieve between 16 -25 marks this academic year.

MTC Timeline

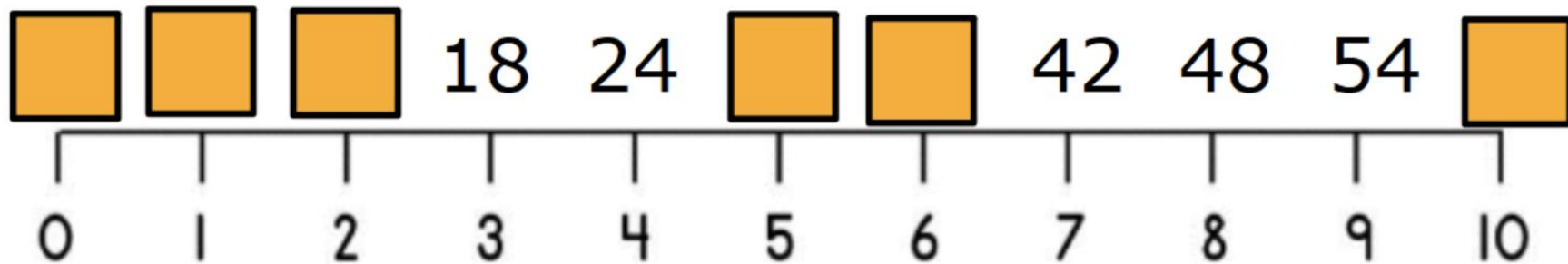
- **May 2026** - Pupils will be assigned PINs to access the 'Try it Out' area and practice (these expire at 4pm each day).
- **June 2026** - All Year 4 pupils complete the check.
- Any absent pupils can complete during the following week.
- **End of June 2025/July 2025** - School receives the outcomes of the checks.
- Scores will be shared with pupils and parents alongside their end of year report.



If I know $5 \times 6 = 30$, what is 6×6 ?

It's just another group of 6!

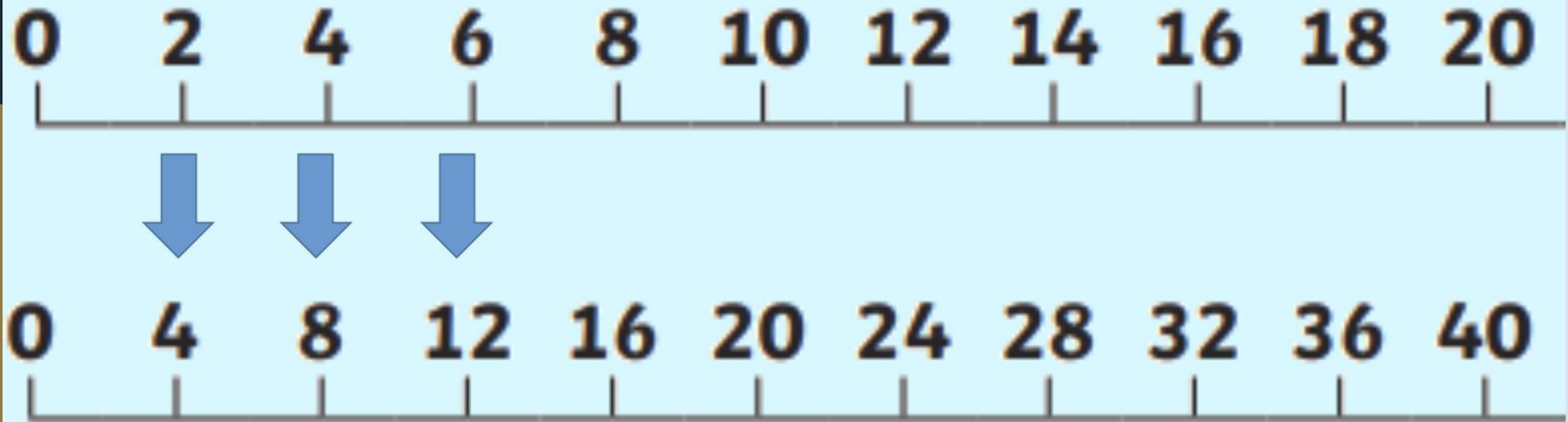
Let's count again!



If I know $10 \times 6 = 60$, 9×6 is one group of 6 less!

2. How can I support my child to **learn** their tables?

Relationships between numbers



0 3 6 9 12 15 18 21 24 27 30



0 6 12 18 24 30 36 42 48 54 60

3. How can I support my child to **learn** their tables?

Pattern spotting and magic fingers!



Spiral multiplication



Spiral Multiplication

1. Use the deck of cards to make a spiral game board starting from the center.
2. Place your game pieces at the start.
3. Player 1 rolls the die.
4. Player 1 multiplies the number on the die by the card the game piece is on.
5. If they are correct, they move the number of spaces the die shows. If they are incorrect, they do not get to move.
6. Take turns and repeat until someone reaches the end.

Over to you...

How well do you know your multiplication tables?

How fast can you answer the following questions?

Use the camera on your phone to scan the QR code.

This will take you to:

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

Click start and complete the questions.



Activities and Resources to use at home

- TTRockstars
- Mrs Thompson MTC <https://www.mrsthompson.co.uk/>
- Daily flashcards (especially of the tricky middle ones 6x7, 8x7 etc.)
- The QR code website from the earlier slide
www.timestables.co.uk/multiplication-tables-check/
- Another similar website is...
https://talkingtimestables.uk/y4_ks2_mtc_practice_tests_multiplication_tables_check.php
- Hit the button ...
<https://www.topmarks.co.uk/maths-games/hit-the-button>
- Daily 10 ... <https://www.topmarks.co.uk/maths-games/daily10>
- Snappy maths ...
<https://www.snappymaths.com/calculations/times-tables-multiplication-division/>