Times Tables Information

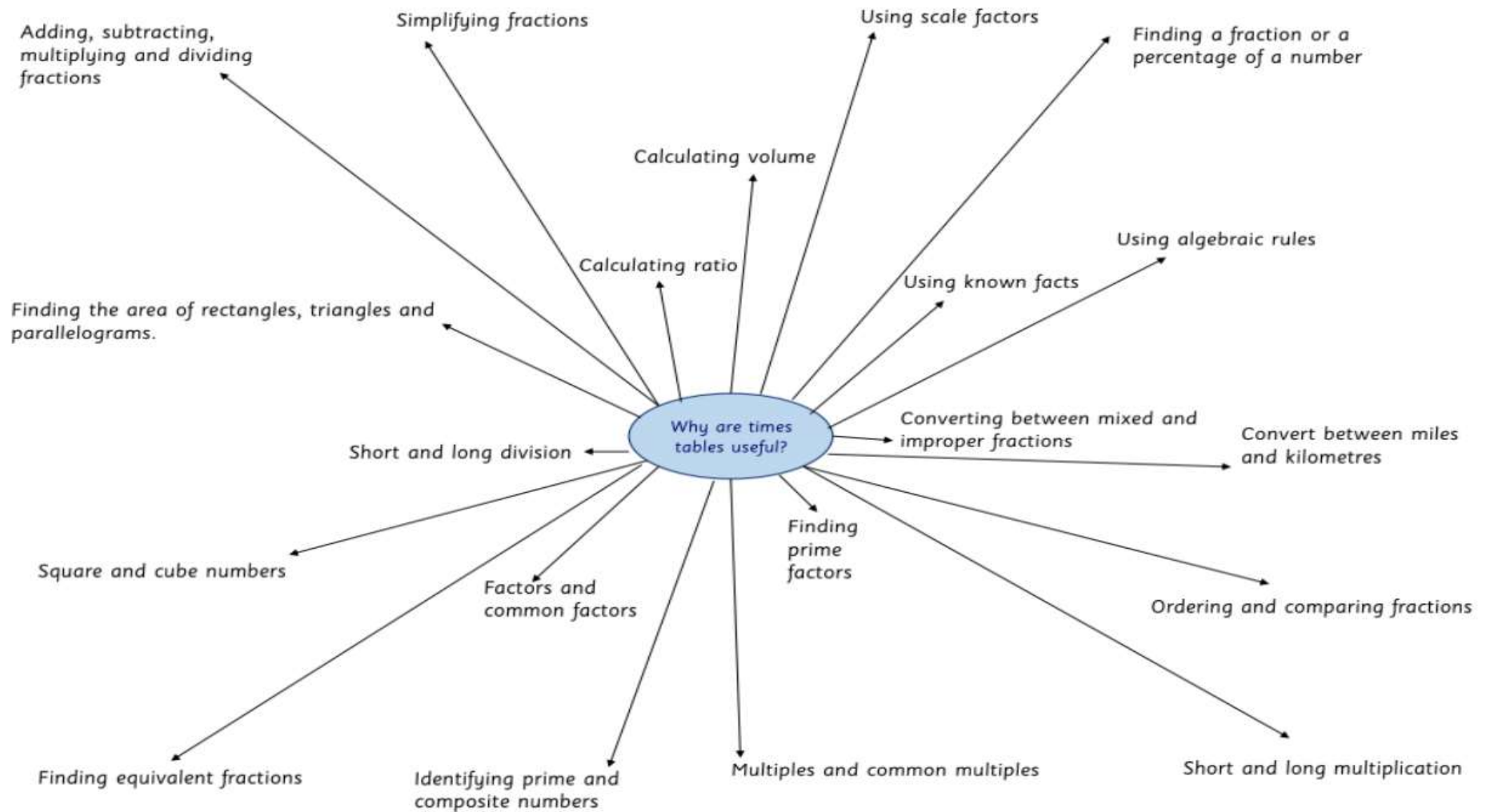## What is the Year 4 multiplication tables check (MTC)?

The multiplication tables check (MTC) is an online assessment, designed to determine whether pupils in Year 4 can fluently recall their multiplication tables up to 12 x 12, through a set of 25 timed questions. It will identify pupils who have not yet mastered this mathematical skill so school can give them additional support. Pupils will have 6 seconds to answer each question and there will be a 3 second pause after each question is answered.

Children are expected to know the 1, 2, 5 and 10 times table by the end of KS1 leaving the 3, 4, 6, 7, 8, 9, 11 and 12 times tables to learn by the end of Year 4.

The test will take place in school in June.

Your child will have a username and password for Times Tables Rock Stars (ttrockstars.com) where they can play games to improve their multiplication skills.

Times Tables Information

Adding, subtracting, multiplying and dividing fractions

Simplifying fractions

Using scale factors

Finding a fraction or a percentage of a number

Calculating volume

Using algebraic rules

Calculating ratio

Using known facts

Finding the area of rectangles, triangles and parallelograms.

Why are times tables useful?

Converting between mixed and improper fractions

Convert between miles and kilometres

Short and long division

Finding prime factors

Square and cube numbers

Factors and common factors

Ordering and comparing fractions

Finding equivalent fractions

Identifying prime and composite numbers

Multiples and common multiples

Short and long multiplication

2 × 2							
3 × 2	3 × 3						
4 × 2	4 × 3	4 × 4					
5 × 2	5 × 3	5 × 4	5 × 5				
6 × 2	6 × 3	6 × 4	6 × 5	6 × 6			
7 × 2	7 × 3	7 × 4	7 × 5	7 × 6	7 × 7		
8 × 2	8 × 3	8 × 4	8 × 5	8 × 6	8 × 7	8 × 8	
9 × 2	9 × 3	9 × 4	9 × 5	9 × 6	9 × 7	9 × 8	9 × 9

Children who have not learnt all times table facts up to 12 x 12 before the MTC should prioritise these 36 facts to be ready to progress to year 5.

The 36 multiplication facts that are required for formal written multiplication are as follows.

2×2							
3×2	3×3						
4×2	4×3	4×4					
5×2	5×3	5×4	5×5				
6×2	6×3	6×4	6×5	6×6			
7×2	7×3	7×4	7×5	7×6	7×7		
8×2	8×3	8×4	8×5	8×6	8×7	8×8	
9×2	9×3	9×4	9×5	9×6	9×7	9×8	9×9

These are the **"building block"** facts. There are roughly 39 weeks in a school year, equating to essentially 1 fact a week, every year. **It is achievable for the vast majority of children to learn these facts.**

Coloured facts learnt (true fluent recall) **by the end of Year 3** (21 facts learnt)

By the end of Year 4:
15 more facts learnt to complete the 36 building block facts
20 more facts to learn for the MTC (11x and 12x)

2 x 2							
3 x 2	3 x 3						
4 x 2	4 x 3	4 x 4					
5 x 2	5 x 3	5 x 4	5 x 5				
6 x 2	6 x 3	6 x 4	6 x 5	6 x 6			
7 x 2	7 x 3	7 x 4	7 x 5	7 x 6	7 x 7		
8 x 2	8 x 3	8 x 4	8 x 5	8 x 6	8 x 7	8 x 8	
9 x 2	9 x 3	9 x 4	9 x 5	9 x 6	9 x 7	9 x 8	9 x 9