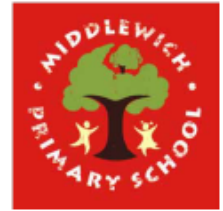


Maths Masters Memorise Facts!

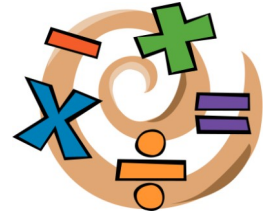


Mastermind Challenge

Year 6 — Autumn 2

I can identify common factors of a pair of numbers

Your challenge is to recall these facts **instantly** and score well in the mastermind test at the end of each half term.



The factors of a number are all numbers which divide it with no remainder.

E.g. the factors of 24 are 1, 2, 3, 4, 6, 8, 12, and 24.

The factors of 56 are 1, 2, 4, 7, 8, 14, 28 and 56.

The common factors of two numbers are the factors they share.

E.g. the common factors of 24 and 56 are 1, 2, 4 and 8.

The greatest common factor of 24 and 56 is 8.

Key Vocabulary

factor

common factor

multiple

greatest common factor

You should be able to explain how you know that a number is a common factor.

E.g. 8 is a common factor of 24 and 56 because $24 = 8 \times 3$ and $56 = 8 \times 7$.

Top Tips for Parents/Carers

The secret to success is practising **little** and **often**. Use time wisely. Can you practise these facts while walking to school or during a car journey? You don't need to practise them all at once: perhaps you could have a fact of the day. If you would like more ideas, please speak to your child's teacher.

Online Games — There are many online games to practise finding the greatest common factor, for example:

<http://www.fun4thebrain.com/beyondfacts/gcfsketch.html>

<http://www.sheppardsoftware.com/mathgames/fractions/GreatestCommonFactor.htm>

For those who would like an extra challenge:

<http://www.math-play.com/Factors-and-Multiples-Jeopardy/Factors-and-Multiples-Jeopardy.html>

Speed Challenge — Choose two numbers. Take it in turns to name factors. Who can find the most in a minute?