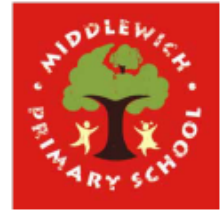


Maths Masters Memorise Facts!

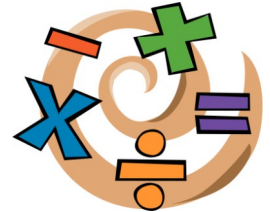


# Mastermind Challenge

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?