



Key Instant Recall Facts (KIRFS) I can identify common factors of a pair of numbers.

Year 6
Autumn 1

Vocabulary

Factor	A number that divides into another number exactly and without leaving a remainder E.g. 4 is a factor of 8.
Common Factor	A number that can be divided into two different numbers, without leaving a remainder. E.g. 2, 5 and 10 are common factors of 20 and 30.
Multiple	The product of one number being multiplied by another number e.g. $3 \times 2 = 6$ (6 is a multiple of 3 and 2).
Highest Common Factor (HCF)	The highest common factor (HCF) is found by finding all common factors of two numbers and selecting the largest one. For example, 8 and 12 have common factors of 1, 2 and 4. The highest common factor is 4.
Prime Number	A number that is only divisible by 1 and itself (it only has two factors).

The factors of a number are all numbers which divide into 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.

Common Factors

Factors of 48

1	2	3	4	6	8	12	16	24	48
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Factors of 30

1	2	3	5	6	10	15	30
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Common factors: 1, 2, 3, 6

How can my parents help at home?

When learning key recall facts it is important to do so little but often. Try giving your children two numbers and ask them to list its factors. Ask them which one is the HCF of the two numbers.

Draw factor bugs like the example shown here:

Try some online games, such as the Topmarks website:

[Multiples and Factors \(topmarks.co.uk\)](https://www.topmarks.co.uk/Multiples-and-Factors)

