



Key Instant Recall Facts Year 5 and 6- Autumn 2

KIRFS stand for Key Instant Recall Facts

By the end of this half term children should know the following facts. The aim is for them to recall these facts instantly.

Year 5

Year 6

Recall multiplication and division facts for all the times tables up to 12x12

Identify common factors of a pair of numbers.

Children should now be able to recite any set of times tables at random and in any given order. They should be able to recite different facts for multiplication and division.

They should be able to answer these questions in any order, including missing number questions e.g.

$$7 \times \bigcirc = 28 \text{ or } \bigcirc \div 6 = 7.$$

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.

Children should be able to explain how they 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 $56 = 8 \times 7$.

Key vocabulary:

What is 12 **multiplied** by 6?

What is 7 **times** 8?

What is 84 **divided** by 7?

Key vocabulary:

factor

common factor

multiple

greatest common factor

Top tips on how to help at home:

The secret to success is practising little and often. If you would like more ideas, please speak to your child's teacher.

- **Speed Challenge** – Take two packs of playing cards and remove the kings. Turn over two cards and ask your child to multiply the numbers together (Ace = 1, Jack = 11, Queen = 12). How many questions can they answer correctly in 2 minutes? Practise regularly and see if they can beat their high score.
- **Online games** – There are many games online which can help children practise their multiplication and division facts. www.conkermaths.org is a good place to start.
- **Use memory tricks** – For those hard-to-remember facts, www.multiplication.com has some strange picture stories to help children remember.
- There are many online games to practise finding the greatest common factor, for example: <http://www.fun4thebrain.com/beyondfacts/gcfsketch.html>
- Choose two numbers. Take it in turns to name factors. Who can find the most?