

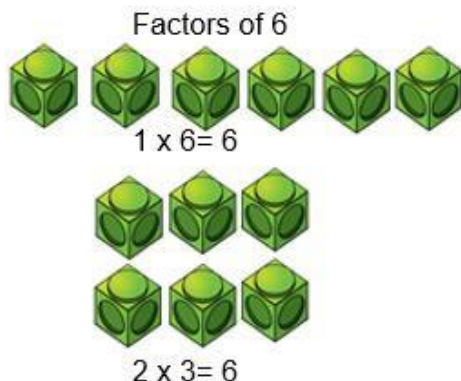


KIRF: I can identify common factors of a pair of numbers.

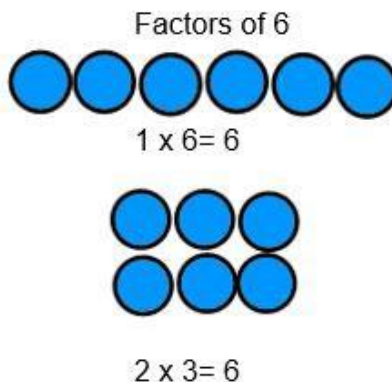
Children should be able to use their knowledge of factors to find the common factors of two numbers.

What can this look like?

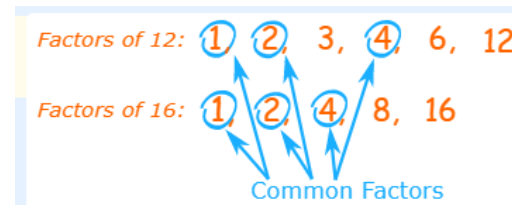
Concrete:



Pictorial:



Abstract:



Questions to ask at home

What are the **common factors** of 18 and 21? Is 12 a **common factor** of 48 and 36?

What is the highest **common factor** of 12 and 24?

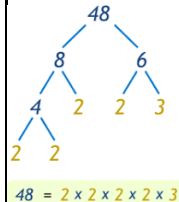
Key vocabulary

Array- An ordered collection of counters, cubes or other item in rows and columns.
Common factors- A number that can be divided into two different numbers, without leaving a remainder.

Factor- A number that multiplies with another to make a product.

Product- The result of multiplying one number by another.

Draw factor trees for different numbers.



$$48 = 2 \times 2 \times 2 \times 2 \times 2 \times 3$$

Use a set of 1-9 digit cards. In pairs, take it in turns to turn over 2 cards to create a 2 digit number e.g 4, 2. These could make 24 or 42, 1 player chooses one of the numbers (e.g 24) and the other person has the remaining number (42). Each player tries to find as many factors for their number as possible, scoring 1 point for each factor. They score 2 points for any common factors they have identified between the numbers. The first person to score 20 points is the winner.

Active Learn

Bingo! <https://www.activelearnprimary.co.uk/resource/1100655>

Beastly Bugs <https://www.activelearnprimary.co.uk/resource/1100685>

Websites

<https://www.topmarks.co.uk/maths-games/multiples-and-factors> https://www.math-play.com/Factors-Millionaire/factors-millionaire-game_html5.html

If your child feels confident with finding common factors then these resources from nrich will help challenge and develop their thinking: <https://nrich.maths.org/1138> <https://nrich.maths.org/12672> <https://nrich.maths.org/7517> <https://nrich.maths.org/factorpuzzle> <https://nrich.maths.org/factorsandmultiples>

Things to try

Knowing times table facts is essential for children to be able to identify factors.

TT Rock Stars – try to log on as much as possible - just 5 minutes practice a day makes a big difference.

<https://www.topmarks.co.uk/maths-games/hit-the-button> <https://www.timestables.co.uk/>

