

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 fac-



What can this look like

Concrete

$1 \times 6 = 6$

$2 \times 3 = 6$

Pictorial

Factors of 6

$1 \times 6 = 6$

$2 \times 3 = 6$

Abstract

Factors of 12: 1, 2, 3, 4, 6, 12

Factors of 16: 1, 2, 4, 8, 16

Common Factors

Questions

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.

Activity Ideas

Factor Rainbows- children can draw, paint or chalk factor rainbows.

Multiply the numbers, colours and lines to 6, complete the factor rainbows for each product. e.g.

Websites

<https://www.topmarks.co.uk/maths-games/multiples-and-factors>

<https://www.mathnook.com/math/math-speed-racing-factors.html>

https://www.math-play.com/Factors-Millionaire/factors-millionaire-game_html5.html