# Year 6 – Autumn Block 2 – Four Operations – Common Factors

## About This Resource:

This PowerPoint has been designed to support your teaching of this small step. It includes a starter activity and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack. You can choose to work through all examples provided or a selection of them depending on the needs of your class.

## National Curriculum Objectives:

Mathematics Year 6: (6C5) Identify common factors, common multiples and prime numbers

## More Year 6 Four Operations resources.

## Did you like this resource? Don't forget to review it on our website.

Year 6 – Autumn Block 2 – Four Operations

Good morning, Year 6. It's 18th May 2020 – the last Monday of term 5!

# Part 1 – Fluency Activities

# WALT Find Common Factors

***Look out for my green notes to help you!***

## Introduction

**Find the factors of the numbers below.**

***Remember that factors are numbers that a number can be divided by without leaving any remainders.***

# 48

# 35

## Introduction

**Find the factors of the numbers below.**

# 48

1, 2, 3, 4, 6, 8, 12, 16, 24, 48

# 35

1, 5, 7, 35

## Varied Fluency 1

**Tick the factors of each number to find common factors of 32 and 40.**

***Remember that common factors are numbers that a pair, or group, of numbers can both/all be divided by with no remainders.***

| | 32 | 40 |
|---|---|---|
| 4 | | |
| 8 | | |
| 6 | | |
| 10 | | |

## Varied Fluency 1

**Tick the factors of each number to find common factors of 32 and 40.**

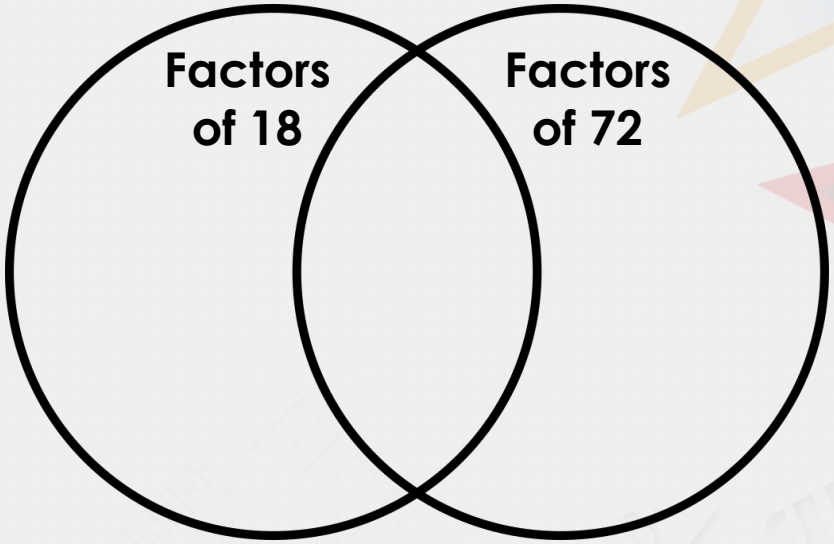
| | 32 | 40 |
|---|---|---|
| 4 | ✓ | ✓ |
| 8 | ✓ | ✓ |
| 6 | | |
| 10 | | ✓ |

## Varied Fluency 2

**Sort the numbers into the Venn diagram.**

***The numbers that go into the overlapping section will be common factors for both numbers.***

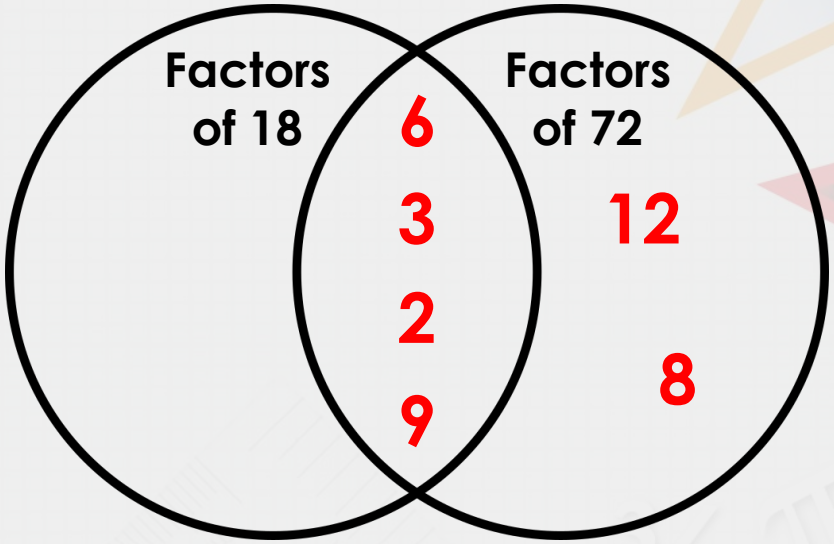
| | | |
|---|---|---|
| 6 | 12 | 3 |
| 2 | 9 | 8 |



## Varied Fluency 2

**Sort the numbers into the Venn diagram.**

| | | |
|---|---|---|
| 6 | 12 | 3 |
| 2 | 9 | 8 |



## Varied Fluency 3

**Which of these numbers are common factors of 54 and 36?**

| | | |
|---|---|---|
| 6 | 8 | 3 |
| 9 | 2 | 12 |

## Varied Fluency 3

**Which of these numbers are common factors of 54 and 36?**

| | | |
|---|---|---|
| 6 | 8 | 3 |
| 9 | 2 | 12 |

## Varied Fluency 4

**Find 3 common factors of the following numbers.**

**56** **48**

## Varied Fluency 4

**Find 3 common factors of the following numbers.**

**56** **48**

**Various answers, for example: 2, 4, 8**

# Well done! It's over to you now.

Go to Part 2 and choose your challenge! Normal rules apply: page 1 will give you an easier challenge, page 2 will be about the same as what we've just practised and page 3 will be more of a stretch.

You only need to do the first set of questions on your chosen challenge – the 'A' questions. If you want extra practice, you can then do the 'B' questions of your chosen challenge page. When you finish, don't forget to mark your answers before sharing, so I can see where you need help.