

LIFE/work balance



We have started a #LIFEworkbalance campaign and we need your help to complete our LIFE/work balance survey.

We hope to publish the results soon, so please give 15 minutes of your time to help us get a true picture of school life.

Want to be a part of this campaign? Take the [survey](#) on our website and share it with your colleagues!

Year 6 – Spring Block 6 – Ratio – Calculating Ratio

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: (6R1) [Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts](#)

Mathematics Year 6: (6R3) [Solve problems involving similar shapes where the scale factor is known or can be found](#)

Mathematics Year 6: (6R4) [Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples](#)

More [Year 6 Ratio](#) resources.

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

WALT Calculate Ratio

Follow this presentation and make notes and answer the questions as you go. Ideally, aim to do parts 1-4 of this lesson, but if you are unable to finish, try to ensure you complete parts 1 and 2 of this lesson – this presentation and the first set of challenges.

Introduction

Complete the sentences using the images below.



For every _____ sprouts there are _____ carrots.

of the vegetables are sprouts,

of the vegetables are carrots.

:

Introduction

Complete the sentences using the images below.



For every 3 sprouts there are 4 carrots.

3

of the vegetables are sprouts,

4

of the vegetables are carrots.

7

7

3

:

4

Varied Fluency 1

Use the image below to complete the ratio statements.



For every _____ teacher, there are _____ pupils.

If there are 12 teachers, how many pupils will there be?

Varied Fluency 1

Use the image below to complete the ratio statements.



For every 1 teacher, there are 10 pupils.

If there are 12 teachers, how many pupils will there be?

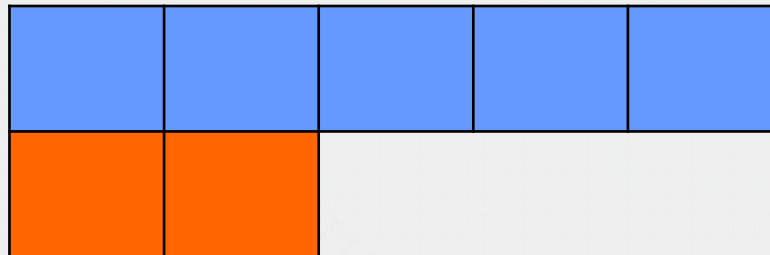
120

Varied Fluency 2

**There are 35 animals on a farm. For every 5 cows there are 2 pigs.
Use the bar model to help you calculate:**

How many cows altogether?

How many pigs altogether?



Varied Fluency 2

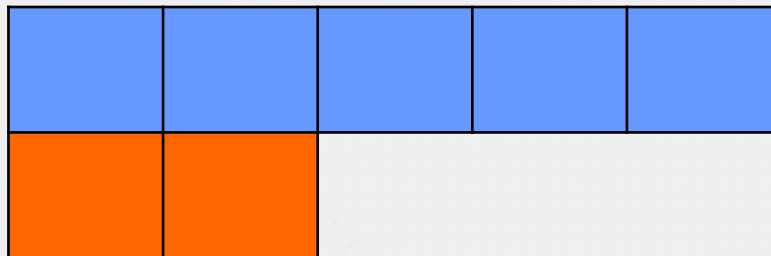
There are 35 animals on a farm. For every 5 cows there are 2 pigs.
Use the bar model to help you calculate:

How many cows altogether?

25

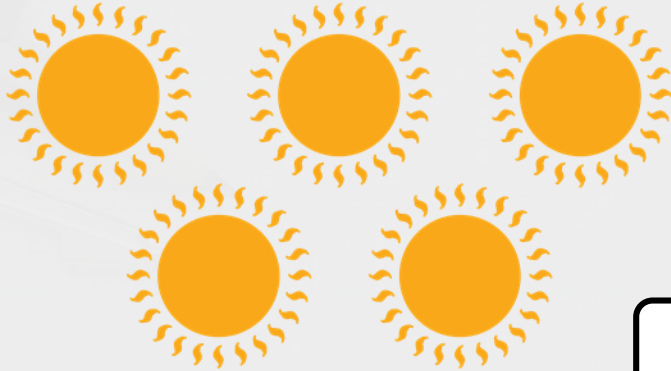
How many pigs altogether?

10



Varied Fluency 3

What is the ratio of suns to rainclouds?



:

Use the ratio to calculate how many symbols there will be altogether if there are 20 suns.

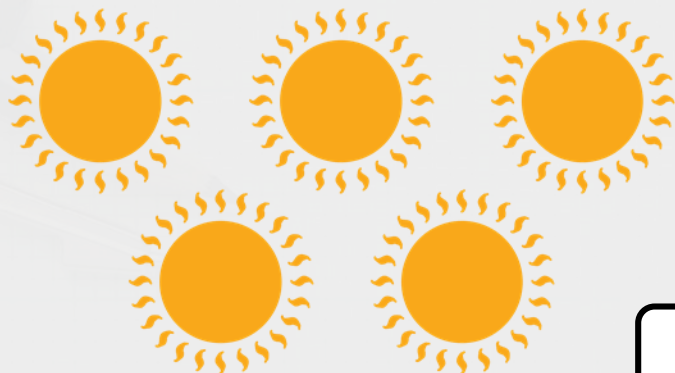
suns

rainclouds

symbols altogether

Varied Fluency 3

What is the ratio of suns to rainclouds?



5 : **3**

Use the ratio to calculate how many symbols there will be altogether if there are 20 suns.

20 suns

12 rainclouds

32 symbols altogether

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 four questions on your chosen challenge – the ones on the left-hand side. If you want extra practice, you can then do the four questions on the right hand side 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.