## Lesson 4- Ratio

## What do you need?

Pen, Paper and a calculator! :

| Glue Zone |  |  |  |
| :--- | :--- | :--- | :--- |
| G.g. sad, sick, tired, <br> bored | E.g. happy, calm, <br> focused, ok | E.g. worried, excited, <br> annoyed | E.g. angry, terrified, <br> elated |
|  |  |  |  |



What is the $\square$ ratio of Pink to Blue circles?



What is the
 ratio of Green to Pink circles?



What is the
3:4:2
ratio of Green to Blue to Pink 4:3:2 circles?


3 to 3
What is the ratio of Blue
 to Pink circles?

## Visual Example 1:

Ben the painter needs 6 litres of dark purple, he uses 4 litres of red paint and 2 litres of blue paint.


Write the ratio of the number of red tins to the number of blue tins in its simplest form.

## Red : Blue



## Visual Example 2:

Sarah has a number of white and black counters in a bag..


Write the ratio of the number of black counters to the number of white counters in its simplest form.

## Black : White



## 24/06/2020

Examples:

## Ratios



This can be done in one step by dividing by 40

| E.g. $\left.3 \begin{array}{l}\text { Simplify } 75 p: £ 1.25 \\ \\ \\ \\ \\ 30 p: 10 p \\ 3: 140 p \\ 3: 14\end{array}\right) \div 10 p$ |
| :--- | :--- |

Change to the same units before simplifying and drop the units

## 24/06/2020

## Exercise One:

$\underline{\text { Ratios }}$


2 Simplify the following expressions by converting the units

| a $4 \mathrm{~cm}: 20 \mathrm{~mm}$ | b | $60 \mathrm{~cm}: 2 \mathrm{~m}$ | c | $3 \mathrm{~kg}: 1000 \mathrm{~g}$ | d | $1 \mathrm{hrs}: 20 \mathrm{mins}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $4 n n n n n n$ | $4: 2$ |  | $3: 10$ |  | $3: 1$ |  |

380 men and 60 women are at a wedding. Write this as a ratio of men to women in its simplest form.

4:3
4 A painter mixes 35 L of red and 15 L of blue paint to get Purple. Write this as a ratio of red to blue in its simplest form.

5 A model of a plane is 30 cm . The real plane is 1 m . Write this as a ratio of model to real life in its simplest form.

6 A recipe contains 0.5 kg of sugar and 40 g of butter. Write this as a ratio of Butter to Sugar in its simplest form.

## Don’t Forget!!!

There is work to check your understanding and help you practice on the school website!

You can do this on any piece of paper - just make sure you ask an adult at home to send me your answers so I can mark them ©

Traffic light your work today.

Thumbs down-I don't understand it
Thumbs across- I understand some of it
Thumbs up-I understand all of it

