Year 7 Knowledge Organiser
Ratio and Propertion

## Obiectives

Use ratio notation, including reduction to simplest form
Divide a given quantity into two parts in a given part part or part whole ratio


Real-life ratio example...
Question 1: Jake is making scones.
Here is a list of ingredients to make 8 scones.

## 8 Scones

30 g caster sugar
50 g butter
140 ml milk
1 egg

200 g flour How much of each ingredient would be needed to make:
(a) 16 scones?
(b) 4 scones?
(c) 24 scones?
(d) 40 scones?
(e) 80 scones?
(f) 2 scones?

Decide how the quantity of scones has changed from the recipe into how many Jake needs to make each time.

What do you need to multiply or divide each quantity by?

Question 2: Chloe is making ice cream. She is using the recipe below.

## serves 4

300 ml double cream
320 ml milk
120 g caster sugar
1 vanilla pod
4 egg yolks

How much of each ingredient would Chloe need to make enough for
(a) 8 people?
(b) 2 people?
(c) 1 person?
(d) 3 people?
(e) 6 people?
(f) 10 people?

Where the new quantity isn't a multiple or factor of the original quantity, express the change as a fraction...
e.9. For part (d) Chloe needs to alter the recipe to feed 3 people 'out of' 4 people. Therefore we can multiply each ingredient by $3 / 4$ to find the new amount.

