

## Week 6: Ratio

### What does it mean?

Ratio is the comparison of two or more quantities, expressed as the quotient: one divided by another.

For example:



When we make orange juice from a cordial mixture added to water, it may suggest – one part juice to four parts water.

This can be written as the ratio of juice to water as 1:4.

*It doesn't matter how big your glass or jug is, the ratio will still need to be 1:4.*



**Need more guidance?** <https://corbettmaths.com/2013/03/03/simplifying-ratio/>

### Task



Write the following ratios in their simplest form.  
The first one has been done for you.

a)  $10 : 50 = \underline{1 : 5}$

g)  $52 : 39 = \underline{4 : 3}$

b)  $63 : 18 = \underline{7 : 2}$

h)  $18 : 30 = \underline{3 : 5}$

c)  $25 : 10 = \underline{5 : 2}$

i)  $66 : 88 = \underline{3 : 4}$

d)  $64 : 32 = \underline{2 : 1}$

j)  $10 : 90 = \underline{1 : 9}$

e)  $400 : 300 = \underline{4 : 3}$

k)  $90 : 75 = \underline{6 : 5}$

f)  $8 : 16 = \underline{1 : 2}$

l)  $49 : 35 = \underline{7 : 5}$

## Problem Solving

Question 1: Daisy mixes 50 ml of orange juice with 200 ml of water.  
Write down the ratio of orange juice to water.  
Give your answer in its simplest form.

1:4

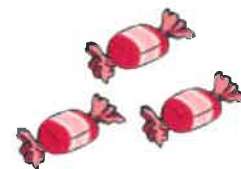
Question 2: At a football match, there are 3000 men and 1800 women.  
Write down the ratio of male fans to female fans.  
Give your answer in its simplest form.

5:3



Question 3: Aidan, Bill and Cara share sweets in the ratio of their ages.  
Aidan is 12 years old.  
Bill is 9 years old.  
Cara is 3 years old.  
Write down the ratio of their ages.  
Give your answer in its simplest form.

4:3:1



Question 4: In a nursery, there are 5 adults and 14 children.  
Write the ratio of adults to children in the form 1 : n

1:2.8

Question 5: Ellie is making a cake.  
The instructions say that the ratio of sugar to flour should be 1 : 3  
Ellie uses 250g of sugar and 650g of flour.  
Has Ellie used the correct ratio of sugar to flour?

no, elle should have used  
750g of flour



## Weekly Challenge

A Shark has a head that is 45cm long.

The Sharks tail is as long as its head and half its body.

The Sharks body is as long as its head and its tail.



How long is the Shark?

Now complete the online quiz:

<https://forms.office.com/r/c1QK8kycDJ>

put your answers  
here