## LO: To calculate the ratio (bronze)

1a. Use the image below to complete the ratio statements.	1b. Katie is giving her party guests party hats using this ratio:
For every oranges, there are pears.	There are 30 party hats altogether. Eighteen children come to the party, 1/2 of them choose a stripy hat.
if there are 8 oranges, how many pears will there be?	How many children get a stripy hat? How many children get a spotty hat? How many spare stripy and spotty hats are there?  2b. Martin is sorting out his pencil case. He
2a. There are 40 pencils and pens in a box. For every 1 pencil, there are 3 pens.	wants to have 2 pencils for every 1 pen.
How many pencils altogether? How many pens altogether?	Has he sorted it out correctly?  Explain your answer.
3a. What is the ratio of white stripes to	☆
black stripes?	3b. For every 4 footballs, there are 8 football boots. There are 16 football boots altogether.
Use the ratio to calculate how many stripes there will be altogether if there are	How many footballs are there?
6 white stripes.  6 white stripes  black stripes  stripes altogether	If a pair of football boots goes missing, what is the new ratio of footballs to boots?
<b>☆</b>	<b>☆</b>
4.	5.
The ratio of red to yellow counters is 2:3	Esther is building a tower of cubes.
There are 20 counters in total.	The ratio of red to yellow cubes is 3:1
How many counters of each colour are there? You can colour the counters to help you.	The tower has 6 yellow cubes. How many red cubes are there?
yellow red	

## LO: To calculate the ratio (silver)

L	
4a. Use the image below to complete the ratio statements.	4b. Will is providing drinks for a school disco.
*	For every 4 bottles of pop, he takes 1 bottle of water.
For every apples, there are	There are 45 people going to the disco, $\frac{1}{3}$ of them want water.
bananas.	How many bottles does Will take altogether?
If there are 12 apples, how many bananas	How many bottles of water does he take?
will there be?	<b>\$</b>
5a. There are 28 pieces of fruit on a plate. For every 4 strawberries, there are 3 raspberries. Use the bar model to help	5b. Caleb is sorting jam flavours. He wants to arrange the flavours using the ratio 2 marmalade to every 3 strawberry jam.
yoù calculate:	Have the flavours been arranged correctly?
How many strawberries altogether? How many raspberries altogether?	
6a. What is the ratio of horses to giraffes?	Explain your answer.
17 77	6b. For every 2 cats in the kennel, there are 6 dogs. There are 24 dogs altogether.
	One third of the dogs are out on their walk.
Use the ratio to calculate how many animals there will be altogether if there are 20 horses.	What is the new ratio of cats to dogs?
20 horses	What is the new total number of animals?
animals altogether	<b>☆</b>
	N

7.

Nijah plays 21 games of chess.

For every 2 games she wins, she loses 5 games.

How many more games does she lose than win?

A group of students study French or German in the ratio 3:7
a) Which subject has the most students?
b) Draw a diagram to represent this.

c) There are 80 students in total.

How many more students study German than French?

## LO: To calculate the ratio (gold)

1.

 a) Huan is making a drink by mixing 1 part juice with 5 parts water.

Complete the table to show the amounts he would need to use.

Juice	Water
1 litre	5 litres
2 litres	
4 litres	
100 ml	
200 ml	
300 ml	
	30 litres
	750 ml

b) Huan makes 1 litre 500 ml of drink in total.
How much juice and water does he need to use?

uice	water	

2.

A group of students study French or German in the ratio 3:7

- a) Which subject has the most students?
- b) Draw a diagram to represent this.

c) There are 80 students in total.

How many more students study German than French?

3.

Describe a situation for each bar model.

a) green	
blue	

b)		28	
	green		
	blue		

c)	green		
	blue	<b>□</b> → 28	

Calculate the value of the ratios

4. 5.



