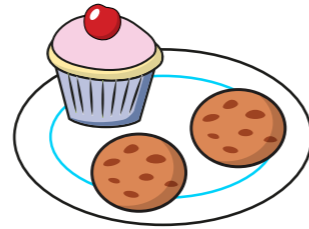


# Calculating ratio

- 1 Eva is baking cakes and cookies.  
For every 1 cake, she will bake 2 cookies.



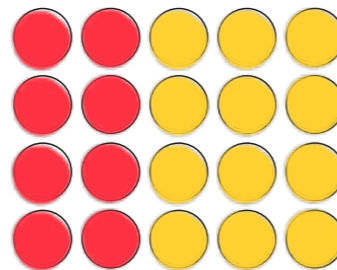
a) If Eva bakes 3 cakes, how many cookies will she bake?

6

b) If Eva bakes 10 cookies, how many cakes will she bake?

5

- 2 The ratio of red to yellow counters is 2 : 3  
There are 20 counters in total.  
How many counters of each colour are there?  
You can colour the counters to help you.



yellow

12

red

8

- 3 Tom has 5 green cubes for every 3 yellow cubes.  
He has 16 cubes in total.

Draw a diagram to represent this.



- 4 Esther is building a tower of cubes.  
The ratio of red to yellow cubes is 3 : 1  
The tower has 6 yellow cubes. How many red cubes are there?

18

- 5 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?

9

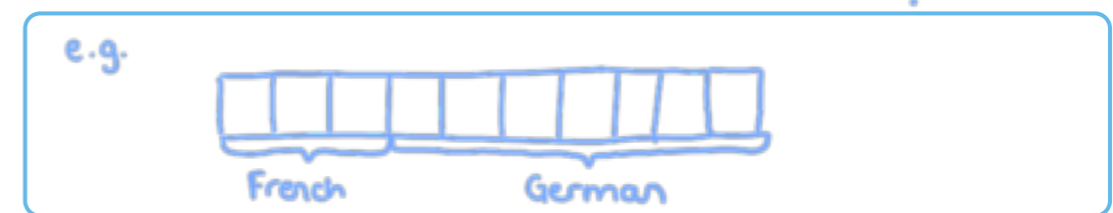
- 6 a) Huan is making a drink by mixing 1 part juice with 5 parts water.  
Complete the table to show the amounts he would need to use.

Juice	Water
1 litre	5 litres
2 litres	10 litres
4 litres	20 litres
100 ml	500 ml
200 ml	1 litre
300 ml	1.5 litres
6 litres	30 litres
150 ml	750 ml

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

juice 250 ml      water 1,250 ml

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



- c) There are 80 students in total.  
How many more students study German than French?

32

- 8 Describe a situation for each bar model. Various answers.

a) green \_\_\_\_\_  
blue \_\_\_\_\_

b) \_\_\_\_\_  
green \_\_\_\_\_  
blue \_\_\_\_\_

c) green \_\_\_\_\_  
blue \_\_\_\_\_

Compare answers with a partner.  
What is the same and what is different?

