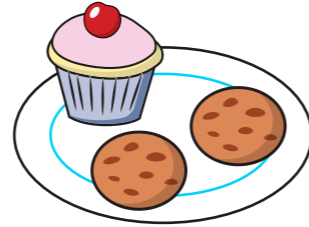


Calculating ratio

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



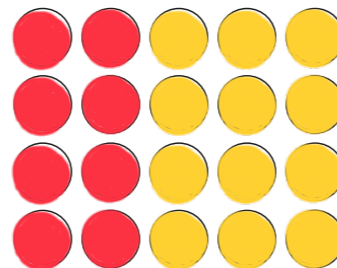
a) If Eva bakes 3 cakes, how many cookies will she bake?

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

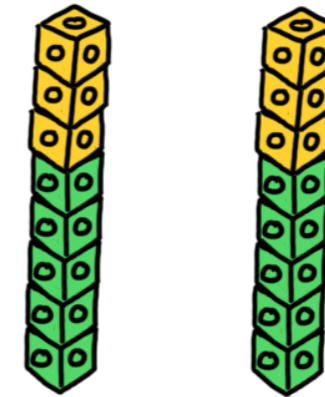
12

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?