## Language of Ratio

A ratio shows the relationship between values.


For every 2 blue flowers there are 4 pink
flowers. The ratio of blue flowers to pink flowers is 2:4.

OR
For every blue flower there are 2 pink flowers. The ratio of blue flowers to pink flowers is 1:2.

## Ratios and fractions

Ratios and fractions are very closely linked.


The ratio of apples to oranges is $6: 12$ or 1:2. There are $1 / 2$ the number of apples compared to oranges OR there are twice as many oranges as apples.
The ratio of apples to the total number of fruit is $6: 18$ or 1:3.
$1 / 3$ of all the fruit are apples.


## Year 5/6-Ratio

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## Scale factors

When a shape is increased by a scale factor, the length and width are multiplied by the scale factor.


4 cm


12 cm
2 cm The green rectangle has been increased by a scale factor of 3 to make the yellow 6 cm rectangle.

## Flapjacks

Serves: 10
120 g butter
100 g dark brown soft sugar
4 tablespoons golden syrup
250 g rolled oats
40 g sultanas or raisins

John has 180 g of butter. What is the largest number of flapjacks he can make?


## Calculating ratios

A farmer plants some crops in a field. For every 12 carrots, she plants 5 potatoes. She plants 60 carrots in total. How many potatoes did she plant? How many vegetables did she plant in total?


Emily has a packet of sweets. For every 3 red sweets there are 5 purple sweets. If there are 32 sweets in the packet in total, how many of each colour are there?


## 20purple

If you had 3 red sweets, you'd have 5 purple so 8 sweets in total. 8 goes into 324 times so you'd have $3 \times 4$ red sweets and $5 \times 4$ purple.

