

Ratio Worded Problems

(a)	(b)	(c)	(d)
A pencil case contains 5 blue pencils, 3 red pencils and 7 black pencils. What fraction of the pencils are red? Give your answer in its simplest form.	In a florist shop, the ratio of roses to tulips to gerberas is 7 : 2 : 3. What fraction of the flowers in the shop are roses or tulips? Give your answer in its simplest form.	The ratio of the number of boys to the number of girls in a school is 4 : 7. There are 91 girls in the school. Work out the number of boys in the school.	The books in a library are fiction or non-fiction in the ratio 3 : 2. If there are 573 fiction books, how many books are there in the library in total?
(e)	(f)	(g)	(h)
A map has a scale of 1 : 500. Martha measures a distance of 5 cm on the map. What actual distance in m does this correspond to?	Madeira cake mixes flour, sugar and butter in the ratio 5 : 3 : 2. How much flour and butter is required to mix with 75 g sugar?	In a car park there are twice as many white cars as black cars, and three times as many red cars as white cars. Write the ratio of cars red : white : black in its simplest form.	A recipe to make 8 pancakes needs 200 ml milk and 120 g flour. How much milk and flour is need to make 20 pancakes?
(i)	(j)	(k)	(l)
The angles in a quadrilateral are in the ratio 5 : 7 : 4 : 2. Find the size of each of the angles.	120 ml of orange drink is made with cordial and water in the ratio 1 : 4. To make the drink stronger 10 ml more of cordial is added. What is the ratio of cordial to water for the new drink?	Ishaq builds a model rocket. The height of the model rocket is 16 cm, and the actual height of the model is 48 m. Find the ratio of the model rocket to the real rocket.	Jim mixes 1 litre of red and white paint in the ratio 1 : 3. How many ml of red paint should be added so that the ratio becomes 8 : 15 ?