W	rite each ratio in i	ts simplest for	rm.	Remember to change
a	2 cm:5 m	b 8 mr	n:12cm	the quantities into the
c	25 g: 3 kg	d 6 mr	m:5m	same units first.
e	4mm:1km	f 15k	g:2tonnes	
g	125 g:1 tonne	h 20 s	5 min	5s:2 hours
j	150 mm: 15 km	k 10 m	in:3 days	40 ml: 10 litres
2)	aring in a given ra Dawn and Jane s kes: Dawn		s in the ratio 1:2. Total for Dawn: Total for Jane:	
-		are 21 sweets	s in the ratio 3:4. I	Draw how many each gets in the
DOX	ces: Eric	Mark	Total for Eric:_ Total for Mark:	
	Jenny and Sharo boxes: Jenny	n share 14 to Sharon	ffees in the ratio 2	::5. Draw how many each gets in
			Total for Jenny	:
			Total for Share	on:
-	Mike and Neil sha	are 16 mints	in the ratio 1:3. Di	raw how many each gets in the
	Mike	Neil	Total for Mike:	
			Total for Neil:	
Ho Ho		otal? art worth?		
Η̈́ο	Share £30 in the w many parts in t w much is each pa	otal?		

1.

How r	much is	each s	share?	
		CGCII	J a	

- 8) Share £25 in the ratio of 4:1
 How many parts in total?
- 9) Share £16 in the ratio of 5:3
- 10) Share £33 in the ratio of 7:4 11)

Blue, white and yellow paint is mixed in the ratio 3:20:2. The paint is sold in 5 litre containers.



Calculate the volume of each colour paint in the container.

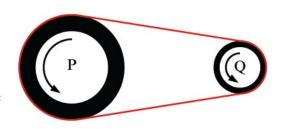
- a White paint
- **b** Blue paint
- c Yellow paint

Fruit juice is made from mango, orange, apple and grape juice in the ratio 4:8:3:1. The juice is sold in 1 litre cartons.

- a Calculate the amount of mango juice in a carton.
- **b** Calculate the amount of apple juice in a carton.
- c A promotional carton is produced with 25% extra free. Calculate the amount of grape juice in a promotional carton.

12)

P and Q are two chain wheels. For every 2 complete rotations that wheel P makes, wheel Q makes 7.

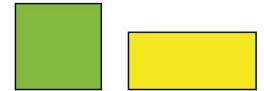


- a Calculate the number of rotations made by wheel Q when wheel P makes 250 rotations.
- **b** Calculate the number of rotations made by wheel P when wheel Q makes 497 rotations.
- c If the combined number of rotations is 1620, calculate the number of rotations made by each wheel.

13)

A square has the same area as a rectangle.

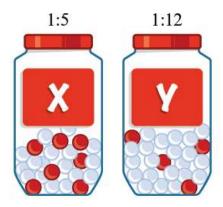
The sides of the rectangle are in the ratio 9:4. The perimeter of the rectangle is 130 cm.



- a Calculate the lengths of the sides of the rectangle.
- **b** Calculate the area of the rectangle.
- c Calculate the side length of the square.
- Write down the ratio of the perimeters of the two shapes in the form perimeter of square: perimeter of rectangle.
 Give your answer in its simplest form.

Think task

Two jars contain sweets. Jar X has red and white sweets in the ratio 1:5, and jar Y has red and white sweets in the ratio 1:12.



The two jars are then mixed together. Find the smallest number of sweets that could have been in each jar if the red and white sweets are now in these ratios.

- a 1:6
- **b** 1:7
- c 1:8
- d 1:9
- e 1:10
- f 1:4