Q1. What is the ratio of red marbles to the other colours? A. $6: 10$
$3: 5$

Q2. What is the proportion of red marbles?
A. 6 'out of' $16(6 / 16)$ 3 'out of' 8 (3/8)

Q3. What is the ratio of red to blue to green marbles?
A. $6: 2: 8$

3:1:4

Q4. If there are 24 marbles in the same ratios, how can you work out how many of each colour there are?

How do we solve this using $3: 1: 4$ ?

Red $=3 / 8$ of $24=9$ red marbles
Blue $=1 / 8$ of $24=3$ blue marbles
Green $=4 / 8$ of $24=12$ red marbles
How would we check our answers?

Turn the ratios into fractions (proportions). The denominator is each of the ratio parts added together ( $3+1+4=8$ ) The numerator is the ratio part e.g. red $=3 / 8$.

Let's Practice:

- $£ 60$ divided in the ratio 2 : 3
- $£ 100$ divided in the ratio $1: 4$
- $£ 30$ divided in the ratio 11 : 4
- 60 kg divided in the ratio $6: 5: 1$
- 75 kg divided in the ratio 12 : $8: 5$
- 108 kg divided in the ratio $3: 4$ : 5

Let's Practice answers:

- $£ 60$ divided in the ratio $2: 3 £ 24, £ 36$
- $£ 100$ divided in the ratio $1: 4 £ 20, £ 80$
- $£ 30$ divided in the ratio 11 : $4 £ 22,8$
- 60 kg divided in the ratio $6: 5: 130 \mathrm{~kg}, 25 \mathrm{~kg}, 5 \mathrm{~kg}$
- 75 kg divided in the ratio $12: 8: 536 \mathrm{~kg}, 24 \mathrm{~kg}, 15 \mathrm{~kg}$
- 108 kg divided in the ratio $3: 4: 527 \mathrm{~kg}, 36 \mathrm{~kg}, 45 \mathrm{~kg}$


## Chocolate Buns

## To make 12 Chocolate Buns you need;-

100 g margarine
120 g caster sugar
2 eggs
150 g self raising sugar

50 g margarine
60 g caster sugar
To make 6 Chocolate Buns you need;-

Find half the amount and add it to the original

To make 18 Chocolate Buns you need;-
150 g margarine
180 g caster sugar
3 eggs
225 g self raising sugar

| 150 | g margarine |
| :---: | :--- |
| 180 | g caster sugar |
| 3 | eggs |
| 225 | g self raising sugar |

1 eggs
75 g self raising sugar

## Add $1 / 2$ again to the original amount

To make 8 Potato Scones you will need;450 g cooked potatoes
2.5 ml spoon salt

50 g butter
100 g self raising flour

Multiply by 4

To make 12 Potato Scones you will need;-
675 g cooked potatoes
3.75 ml spoon salt

75 g butter
150 g self raising flour

To make 32 Potato Scones you will need: 1800 g cooked potatoes

10 ml spoon salt
200 g butter
400 g self raising flour
$21 / 2$ times the original amount

I used 250 g self raising flour
1125 g cooked potatoes
6.25 ml spoon salt

125 g butter How many Potato Scones did I make?

## 100 g of Multigrain Hoops contains

6.5 g protein
3.8 g fat
4.6 g fibre

Multiply by 3
78 g carbohydrates

300 g of Multigrain Hoops contains 19.5 g protein
11.4 g fat
13.8 g fibre

234 g carbohydrates

50 g of Multigrain Hoops contains
3.25 g protein
1.9 g fat
2.3 g fibre

39 g carbohydrates

Divide the 100 g amount by 20 to find $5 \%$
Double the 100 g amount then take away the $5 \%$

I ate 195 g carbohydrates
How much did I have of the following?
16.25 g protein
9.5 g fat
11.5 g fibre

How many grams of Multigrain Hoops

