

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 : 1 30kg, 25 kg, 5 kg
- 75 kg divided in the ratio 12:8:5 36kg, 24kg, 15kg
- 108 kg divided in the ratio 3:4:5 27kg, 36kg, 45kg



Chocolate Buns

To make 12 Chocolate Buns you need;-

Find half the amount and add it to the original

100g margarine120g caster sugar2 eggs150g self raising sugar

Half the amount

To make 18 Chocolate Buns you need;-

150 g margarine

180 g caster sugar

3 eggs

225 g self raising sugar

To make 6 Chocolate Buns you need;-

50 g margarine

60 g caster sugar

1 eggs

75 g self raising sugar

I used 5 eggs

2 ½ times
The original
amount

250 g margarine300 g caster sugar375 g self raising sugarHow many buns did I make?



Potato Scones

Add ½ again to the original amount

To make 8 Potato Scones you will need;-450g cooked potatoes 2.5ml spoon salt 50g butter 100g 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

2 ½ 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?



Breakfast Cereal

100g of Multigrain Hoops contains

6.5g protein

3.8g fat

4.6g fibre

78g carbohydrates

Divide by 2

Multiply by 3

300g of Multigrain Hoops contains

19.5 g protein

11.4 g fat

13.8 g fibre

234 g carbohydrates

50g of Multigrain Hoops contains

3.25 g protein

1.9 g fat

2.3 g fibre

39 g carbohydrates

Divide the 100g amount by 20 to find 5% Double the 100g amount then take away the 5% I ate 195g 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

