GCSE FOUNDATION · REVISION MAT 1

Ratio problems

1 Share £60 in the ratio 2 : 3

2 The ratio of boys to girls in a group is 4 : 5.

There are 36 boys.

How many girls are there?

3 Amy and Ben share some money in the ratio 1 : 4.

Sam says Amy gets $\frac{1}{4}$ of the money.

Explain why Sam is wrong.

4 Blue and yellow paint are mixed in the ratio 3 : 2.

Show that 15 litres of the mix contains 6 litres of yellow paint.

5 Ali and Ben share some money in the ratio 2 : 5.

Ben gets £36 more than Ali.

How much money is shared altogether?

6 A recipe uses flour, butter and sugar in the ratio 5 : 3 : 2 by mass.

Kim has 400 g of flour, 300 g of butter and 150 g of sugar.

What is the greatest total mass of mixture she can make?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 1

Ratio problems

1 5 parts, 1 part = £12

£24 and £36

2 1 part = 36 ÷ 4 = 9

Girls: 9 × 5 = **45**

3 There are 1 + 4 = 5 parts altogether.

Amy gets $\frac{1}{5}$ of the money.

4 5 parts = 15 litres, 1 part = 3 litres

Yellow: 2 × 3 = 6 litres ✓

5 Difference = 3 parts = £36

1 part = £12

Total = 7 × £12 = **£84**

6 Parts: flour 400 ÷ 5 = 80, butter 300 ÷ 3 = 100, sugar 150 ÷ 2 = 75

Sugar runs out first: 1 part = 75 g

Total = 10 × 75 = **750 g**